

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 2/26/

Inspected By: (print name) JAKE Mora clots

Date of Previous Inspection: 1/28//

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects (circle		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
bas system removed. Majority of in adoordance. With the war	was	te eleca	has been		land (VI)



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

Data

South Expansion (Glacier Ridge Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	1		
Notes Area 06 2015 final cover he South clope that was reclaimed	need	seed!	0	eeding in spring	



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 3/28/16	Inspected By: (print name) Jacob My (Colors) Date of Previous Inspectio	n: 2/26/16
, ,		1 1

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)		Found	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes			4,		

LGRL (Hechimovich Landfill)	Defects (circle		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
All waste has been removed	in a	ccord	ance w	th the waste relocation	Plan



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

3/88/16 Date

South Expansion (Glacier Ridge Landfill)		s Found e one)	Weil ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No	Yes			
	Defects	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
2015 Cap area needs seeding	whe	n h	veather pr	er mits	
South slope needs seeding (s)	oce i	vas	reclaimed	or clay added.	
Some areas will need spot see	pribo	nah	ern eros	len took flace	
			,		
			24		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 4/20/16	Inspected By: (print name)	Toke	Margelotsk 1	Date of Previous Inspection: 3/48/16
1 1			' 0	7-7

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 - SDD - 281 | (page 19)

North Hill (Glacier Ridge Landfill)		Found one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes			*		*

LGRL (Hechimovich Landfill)		Found one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes All waste removed as part of 20	irl i	waste	relocation	n plan	



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

4/27/16

Date

5/M

South Expansion (Glacier Ridge Landfill)		s Found e one)	Weil ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes	113	Needs discharge line extended	
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes Area above cap needs seeding	as :	Soon	015 2010	LIG Improvements are co	moleted
Lower portion on west side of	cap	Las	been se	eded and mulched	1
south stop stope Ttop of cap	need	dicto	ling + s	ending once Improvements are	competed
			- 45		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 5/4/6+5/14/6	Inspected By: (print name) Take	Muraelotsky	Date of Previous Inspection: 4/27/10
// //		()	1/1/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)		Found	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	NO	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					

	Found one)	Well ID No.	Description of Defect	Date of Correction
No	Yes			
Defects	Found	Coordinates	Description of Defect	Date of Correction
No	Yes			
	No Defects	No Yes Defects Found	(circle one) No Yes Defects Found Coordinates	No Yes Defects Found Coordinates Description of Defect



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

Date

South Expansion (Glacier Ridge Landfill)		s Found e one)	Well ID No.	Description of Defect	D	ate of Correction
Inspect all gas extraction wells for damage / malfunction	, No	Yes		Tightened compression	Etting 5	
	Defect	s Found	Coordinates	Description of Defect	Da	te of Correctior
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes				
North Slope is being graded &	li.u	be se	c'eving t	~002 102ga		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 62916	Inspected By: (print name) Jake Margel Ofsky	Date of Previous Inspection: 5/4 \$ 5/14/16
, ,		7 7 7

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)	Defects (circle	Found one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					**************************************
Grass on hill has been morned			(4)		

LGRL (Hechimovich Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

6/20/16 Bate

South Expansion (Glacier Ridge Landfill)	Defects Foun (circle one)	d Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No Yes			
	Defects Foun	d Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No Yes			
	and is a	1	take od when weather permits	5



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 7/27/16	Inspected By: (print name) Take Margelofsky	Date of Previous Inspection:	6/20/15	
	Ryan paniels		1	

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

		Well ID No.	Description of Defect	Date of Correction
Nã	Yes			
Defects	s Found	Coordinates	Description of Defect	Date of Correction
No	Yes			
	(circl) No Defect:	Defects Found	(circle one) Yes Defects Found Coordinates	(circle one) Yes Defects Found Coordinates Description of Defect

LGRL (Hechimovich Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes			T.		
Excavated			9;		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

Date

South Expansion (Glacier Ridge Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
4	Defect	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	7.26	Small scep for access hoad Area web but righted not breaching	V25/06



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 8/18/16	Inspected By: (print name) Jake Margae ofst	Date of Previous Inspection: 7/27/10
1		7 7

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction	
No	Yes				
Defects Found		Defects Found	Coordinates	Description of Defect	Date of Correction
No	Yes				
	No Defects	(circle one) No Yes Defects Found	(circle one) No Yes Defects Found Coordinates	(circle one) No Yes Defects Found Coordinates Description of Defect	

LGRL (Hechimovich Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes	*.		
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes Gone - Relocated Into 50	suth 6	Sasb (Sepansion		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

8/18/16 Date

South Expansion (Glacier Ridge Landfill)		Found	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
nill need to be back of raiged pr	olor to		diag		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 9/28/16 Inspected By: (print name) Jake Marcel of State of Previous Inspection: 8/18/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Welf ID No.	Description of Defect	Date of Correction
nspect all gas extraction wells for damage / malfunction	140	Yes			
	Defects Found		Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes				4	

LGRL (Hechimovich Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No Yes				
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes Relocated into conth expan	ngion				



Cover Integrity Monthly Inspection Worksheet

Page 2 Inspector's Initials

South Expansion (Glacier Ridge Landfill)		Found one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects	Found	Coordinates	Description of Defect	Date of Correction
nspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	Ç".	Gilt in Dital west side	of
Also some erosion on south s to seeding doeds to be chant	ed L	shen,	andfill the	V A MI	ce froze)



Horicor, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 10/13/4	Inspected By: (print name) Jacob Margelots	Date of Previous Inspection: 9/28/10
, ,	1	1 /

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 - SDD - 281 | (page 19)

Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
No	Yes			
Defects	s Found	Coordinates	Description of Defect	Date of Correction
No	Yes			
	No Defect:	(circle one) No Yes Defects Found	No Yes Defects Found Coordinates	(circle one) Yes Defects Found Coordinates Description of Defect

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction	
Inspect all gas extraction wells for damage / malfunction	No	Yes				
	Defect	s Found	Coordinates	Description of Defect	Date of Correction	
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes				
Notes Sanda de Company						
Relocated into Southers expansion						



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

10/13/16 Date

South Expansion (Glacier Ridge Landfill)		s Found le one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes	110	10 Vacuum Pinched	
11 14 1	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes		see below	
			-:/4		
			-74		



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: ///30/is	Inspected By: (print name Jaco 6 Margel Ofsky	Date of Previous Inspection: 10/13/16
/ /		

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

	Found one)	Well ID No.	Description of Defect	Date of Correction
No	Yes			
efects	Found	Coordinates	Description of Defect	Date of Correction
Nõ	Yes			
) (efects	Yes efects Found	Yes Coordinates	Yes

LGRL (Hechimovich Landfill)		s Found le one)	Well ID No.	Description of Defect	Date of Correction	
Inspect all gas extraction wells for damage / malfunction	No	Yes	6			
	Defect	s Found	Coordinates	Description of Defect	Date of Correction	
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	**			
Notes Relocated into South expansion		+				



Horicon, WI

.

Cover Integrity
Monthly
Inspection Worksheet

Page 2

11/30/16

South Expansion (Glacier Ridge Landfill)		Found one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes	-		
	Defects	Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	7.		
was in the avec.	placed wells		The Sout	heast side. Fixed some	asosian that



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 2/27/14	Inspected By: (print name) Jakes Marcel of h	Date of Previous Inspection: 11/30/16
/		77

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction	
Inspect all gas extraction wells for damage / malfunction	No	Yes				
	Defects	Found	Coordinates	Description of Defect	Date of Correction	
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes				
Final Cove. In good shape			*			

LGRL (Hechimovich Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction	
Inspect all gas extraction wells for damage / malfunction	No_	Yes				
	Defect	s Found	Coordinates	Description of Defect	Date of Correction	
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes				
Relocated into south expossion	±					



Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Page 2

12/27/16 Date

South Expansion (Glacier Ridge Landfill)		s Found e one)	Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defect	s Found	Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes	North of GE120	Small Area with soft with Gas	12/37/16
Seep noted of GE 120 repaired Several Areas will need topsoil 9 seed	come	5prino	tine		
Phase 8 south stope has had litterna	Late	COVE	placed	on it	

Attachment E-2

Litter Control Tracking

Jan-Apr 2016

Date	Remarks
2/2/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
2/19/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/16/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/17/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/23/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
4/1/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
4/27/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.

Note:

Information above provides dates in which wind speeds exceeded 30 mph on site. A new tracking log was implimented beginning in May 2016.

May-16

								Contractor		
		Wind				ADS Picker	No. of	Picker	Total	
		Direction	- 40-1		No. of ADS	Hours	Contract	Hours	Picker	
Date	Wind (mph)	(from)	Temp (⁰ F)	Dry/Wet	Pickers	Worked	Pickers	Worked	Hours	Remarks
5/2/2016	4-10	SSW	60s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/3/2016	4-24	ESE	60s	Dry	1	8.47	0	0	8.47	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/4/2016	7-22	NNE	50s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/5/2016	3-17	NNE	60s	Dry	1	10.42	0	0	10.42	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/6/2016	2-18	SE	80s	Dry	1	9.52	0	0	9.52	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/7/2016									0	
5/9/2016	4-25	SE	60s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/10/2016	8-28	E/SE	50s	Wet	1	5.25	0	0	5.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/11/2016	1-13	E	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/12/2016	3-24	WSW	60s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/13/2016	5-21	WSW	50s	Wet	1	7.22	0	0	7.22	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/16/2016	3-22	SE	50s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/17/2016	6-22	ENE	50s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/18/2016	3-18	NE	50s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/19/2016	1-12	SW	60s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/20/2016	1-11	SE	60s	Dry	1	7.33	0	0	7.33	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/23/2016	1-14	S	70s	Dry	1	8.15	0	0	8.15	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/24/2016	2-21	S	70s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/25/2016	2-18	Se	70s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/26/2016	2-21	S	70s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/27/2016	1-14	S	70s	Wet	1	8.08	0	0	8.08	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/31/2016	2-21	SSE	60s	Wet	1	6.8	0	0	6.8	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
									0	

GRL 2016 Litter Control Tracking Jun-16

		Wind				ADS Picker	No. of	Contractor Picker	Total	
Date	Wind (mph)	Direction (from)	Temp (°F)	Dry/Wet	No. of ADS Pickers	Hours Worked	Contract Pickers	Hours Worked	Picker Hours	Remarks
6/1/16	2-20	SW	60s	Wet	1	8.28	0	0	8.28	
6/2/2016	2-16	SW	60s	Wet	1	10.45	0	0	10.45	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/3/2016	1-10	S	70s	Wet	1	8.17	0	0	8.17	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/4/2016	1-18	ENE	60s	Wet	0		0	0	0	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/6/2016	3-29	WSW	60s	Wet	1	8.38	0	0	8.38	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/7/2016	2-5	N	50s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/8/2016	2-13	ENE	50s	Dry	1	8.52	0	0	8.52	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/9/2016	1-12	S	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/10/2016	2-27	S	70s	Wet	1	6.73	0	0	6.73	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/13/2016	3-15	ENE	60s	Dry	1	8.13	0	0	8.13	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/14/2016	3-17	ENE	60s	WET	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/15/2016	3-23	SW	70s	WET	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/16/2016	4-18	NE	60s	Wet	1	8.47	0	0	8.47	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/17/2016	2-14	ENE	70s	WET	1	7.2	0	0	7.2	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/20/2016	3-25	WSW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/21/2016	4-21	WSW	70s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/22/2016	1-13	ENE	70s	Dry	1	9.25	0	0	9.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/23/2016	4-18	ENE	60s	Dry	1	8.15	0	0	8.15	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/24/2016	1-10	ENE	70s	Dry	1	7.48	0	0	7.48	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
					1	3.67	15	63	66.67	Landfill not open, but volunteer group picking along roadside
6/27/2016	3-20	SW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/28/2016	2-21	NE	60s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/29/2016	1-10	SW	60s	Dry	1	9.75	0	0	9.75	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/30/2016	1-25	SW	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
•									0	

GRL 2016 Litter Control Tracking Jul-16

								Contractor		
		Wind				ADS Picker	No. of	Picker	Total	
		Direction			No. of ADS	Hours	Contract	Hours	Picker	
Date	Wind (mph)	(from)	Temp (°F)	Dry/Wet	Pickers	Worked	Pickers	Worked	Hours	Remarks
7/1/15	3-18	NNE	60s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
7/5/2016	1-17	SW	70s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/6/2016	2-19	SW	70s	Dry	1	8.2	0	0	8.2	Trash Screens adjusted at working face. Paper picker on site.
7/7/2016	1-35	ENE	70s	Wet	1	11.17	0	0	11.17	Trash Screens adjusted at working face, working face repositioned. Picker on site.
7/8/2016	4-25	WSW	70s	Wet	1	7.38	0	0	7.38	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
7/9/2016	2-17	N	70s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
7/11/2016	2-18	S	80s	Wet	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
7/12/2016	3-19	SW	70s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
7/13/2015	1-17	SSW	80s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
7/14/2015	5-28	WSW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
7/15/2015	2-13	NE	60s	Wet	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
7/18/2015	1-13	SW	80s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
7/19/2016	1-9	S	90s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/20/2016	1-13	S	90s	Dry	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
7/21/2016	1-39	S	90s	Wet	0		0	0	0	Trash screens adjusted at working face. Working face repositioned for winds.
7/22/2016	1-13	SW	90s	Dry	1	8	0	0	8	Trash Screens adjusted at working face. Paper picker on site.
7/23/2016									0	
									0	
7/25/2016	1-17	WSW	80s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/26/2016	1-10	SW	80s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
7/27/2016	1-20	SW	80s	Wet	1	7	0	0	7	Trash Screens adjusted at working face. Paper picker on site.
7/28/2016	7-20	ENE	70s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
7/29/2016	6-18	ENE	70s	Wet	1	6.47	0	0	6.47	Trash Screens adjusted at working face. Paper picker on site.
7/30/2016									0	

Aug-16

								Contractor		
		Wind				ADS Picker	No. of	Picker	Total	
		Direction			No. of ADS	Hours	Contract	Hours	Picker	
Date	Wind (mph)	(from)	Temp (°F)	Dry/Wet	Pickers	Worked	Pickers	Worked	Hours	Remarks
8/1/16	1-11	E	70s	Dry	1	8.35	0		8.35	Trash Screens adjusted at working face. Paper picker on site.
8/2/2016	0-8	SE	70s	Dry	1	8.28	0		8.28	Trash Screens adjusted at working face. Paper picker on site.
8/3/2016	1-10	SE	80s	Dry	1	7.37	0		7.37	Trash Screens adjusted at working face. Paper picker on site.
8/4/2016	2-28	S	80s	Wet	1	7.1	0		7.1	Trash Screens adjusted at working face. Paper picker on site.
8/5/2016	2-16	WSE	70s	Wet	1	8.27	0		8.27	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
8/8/2016	1-13	ESE	70s	Dry	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/9/2016	1-14	SW	70s	Dry	1	8.5	0		8.5	Trash Screens adjusted at working face. Paper picker on site.
8/10/2016	0-8	SW	80s	Dry	1	7.15	0		7.15	Trash Screens adjusted at working face. Paper picker on site.
8/11/2016	2-24	S	70s	Dry	1	7.43	0		7.43	Trash Screens adjusted at working face. Paper picker on site.
8/12/2016	2-15	ENE	70s	Wet	1	6.47	0		6.47	Trash Screens adjusted at working face. Paper picker on site.
							10	40	40	Horicon Lions Club picked up HWY V
									0	
8/15/2016	1-12	ENE	70s	Dry	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/16/2016	1-11	SW	70s	Dry	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/17/2016	2-15	SW	70s	Wet	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/18/2016	1-11	S	70s	Dry	1	8.33	0		8.33	Trash Screens adjusted at working face. Paper picker on site.
8/19/2016	1-13	S	70s	Wet	0	0	0		0	Trash Screens adjusted around working face.
8/20/2016	4-25	WSW	70s	Wet	0	0	0		0	Only intake was sludge.
									0	
8/22/2016	0-12	SSW	60s	Wet	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/23/2016	2-15	SSW	60s	Wet	1	8.35	0		8.35	Trash Screens adjusted at working face. Paper picker on site.
8/24/2016	2-17	S	70s	Wet	0	0	0		0	Trash Screens adjusted at working face.
8/25/2016	1-11	SW	70s	Wet	1	8.22	0		8.22	Trash Screens adjusted at working face. Paper picker on site.
8/26/2016	1-11	N	70s	Wet	1	8.33	0		8.33	Trash Screens adjusted at working face. Paper picker on site.
									0	
8/29/2016	1-7	S	70s	Wet	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/30/2016	1-10	WSW	70s	Wet	1	8.38	0		8.38	Trash Screens adjusted at working face. Paper picker on site.
8/31/2016	3-16	NE	60s	Dry	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.

Sep-16

		Wind				ADS Picker	No. of	Contractor Picker	Total	
Date	Wind (mph)	Direction (from)	Temp (⁰ F)	Dry/Wet	No. of ADS Pickers	Hours Worked	Contract Pickers	Hours Worked	Picker Hours	Remarks
9/1/16	3-18	NE	60s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
9/2/2016	2-13	ENE	60s	Dry	1	7.42	0	0	7.42	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
									0	
9/6/2016	2-20	S	70s	Wet	1	7.42	0	0	7.42	Trash Screens adjusted at working face. Paper picker on site.
9/7/2016	2-21	ENE	60s	Wet	1	6.63	0	0	6.63	Trash Screens adjusted at working face. Paper picker on site.
9/8/2016	2-17	WSW	70s	Wet	1	10.4	0	0	10.4	Trash Screens adjusted at working face. Paper picker on site.
9/9/2016	1-13	SE	60s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
9/10/2016	3-28	WSW	60s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
9/12/2016	2-17	S	60s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
9/13/2016	1-12	NE	60s	Wet	1	8.75	0	0	8.75	Trash Screens adjusted at working face. Paper picker on site.
9/14/2016	2-12	Е	60s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
9/15/2016	2-15	SE	60s	Wet	1	8.8	0	0	8.8	Trash Screens adjusted at working face. Paper picker on site.
9/16/2016	2-19	SSE	60s	Wet	1	9.12	0	0	9.12	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
9/19/2016	2-19	S	60s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.
9/20/2016	0-8	SE	60s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
9/21/2016	3-25	ENE	60s	Wet	1	7.47	0	0	7.47	Trash Screens adjusted at working face. Paper picker on site.
9/22/2016	1-9	N	60s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
9/23/2016	6-18	ENE	60s	Wet	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
9/26/2016	7-33	WSW	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site. Additional cover added during day.
9/27/2016	4-27	WSW	50s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
9/28/2016	5-20	NE	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
										Trash Screens adjusted at working face. Paper picker on site. Additional cover added
9/29/2016	8-31	NE	50s	Wet	1	8.2	0	0	8.2	during day.
9/30/2016	8-23	ENE	50s	Wet	1	8.02	0	0	8.02	Trash Screens adjusted at working face. Paper picker on site.

Oct-16

		Wind Direction			No. of ADS	ADS Picker Hours	No. of Contract	Contractor Picker Hours	Total Picker		
Date	Wind (mph)	(from)	Temp (⁰ F)	Dry/Wet	Pickers	Worked	Pickers	Worked	Hours	Remarks	
10/3/16	1-14	ENE	50s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.	
10/4/2016	2-17	SE	60s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.	
10/5/2016	2-20	S	60s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.	
10/6/2016	1-11	SSE	60	Wet	1	10.37	0	0	10.37	Trash Screens adjusted at working face. Paper picker on site.	
10/7/2016	4-29	WSW	50s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
10/10/2016	2-12	S	60s	Dry	1	8.52	0	0	8.52	Trash Screens adjusted at working face. Paper picker on site.	
10/11/2016	2-18	S	60s	Dry	1	9.28	0	0	9.28	Trash Screens adjusted at working face. Paper picker on site.	
10/12/2016	1-15	S	50s	Wet	1	3.55	0	0	3.55	Trash Screens adjusted at working face. Paper picker on site.	
10/13/2016	2-17	SW	40s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.	
10/14/2016	2-17	S	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
10/17/2016	3-15	S	70s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.	
10/18/2016	3-20	WSW	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.	
10/19/2016	0-7	S	50s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.	
10/20/2016	5-21	NE	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.	
10/21/2016	2-12	NNE	40s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
10/24/2016	2-14	N	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.	
10/25/2016	2-13	ENE	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.	
10/26/2016	6-23	SE	40s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.	
10/27/2016	2-14	NE	40s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.	
10/28/2016	3-20	SE	50s	Wet	1	7.28	0	0	7.28	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
10/31/2016	3-14	NE	40s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.	
									0		

Nov-16

		Wind Direction	_		No. of ADS	ADS Picker Hours	No. of Contract	Contractor Picker Hours	Total Picker		
Date	Wind (mph)	, ,	Temp (⁰ F)	Dry/Wet	Pickers	Worked	Pickers	Worked	Hours	Remarks	
11/1/16	1-15	SSW	60s	Dry	1	8.13	0	0	8.13	Trash Screens adjusted at working face. Paper picker on site.	
11/2/2016	2-12	ENE	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.	
11/3/2016	0-10	ENE	40s	Dry	1	10.17	0	0	10.17	Trash Screens adjusted at working face. Paper picker on site.	
11/4/2016	1-16	SW	40s	Dry	1	8.58	0	0	8.58	Trash Screens adjusted at working face. Paper picker on site.	
					1	1.2	0	0	1.2		
									0		
11/7/2016	0-14	S	50s	Dry	1	8.42	0	0	8.42	Trash Screens adjusted at working face. Paper picker on site.	
11/8/2016	4-19	N	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.	
11/9/2016	1-16	SW	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.	
11/10/2016	3-22	SSW	50s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.	
11/11/2016	3-27	NE	40s	Dry	1	7.58	0	0	7.58	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
11/14/2016	1-8	S	40s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.	
11/15/2016	1-10	NE	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.	
11/16/2016	1-13	S	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.	
11/17/2016	3-18	S	50s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.	
11/18/2016	3-35	S	50s	Dry	1	8.08	0	0	8.08	Trash Screens adjusted at working face. Paper picker on site. Additional cover added during day. Working face size minimized.	
									0		
									0		
11/21/2016	2-12	NE	20s	Dry	1	8.75	4	25	33.75	Trash Screens adjusted at working face. Paper pickers on site.	
11/22/2016	2-16	SE	30s	Dry	1	9.17	3	18	27.17	Trash Screens adjusted at working face. Paper pickers on site.	
11/23/2016	2-16	SW	40s	Dry	1	7.48	0	0	7.48	Trash Screens adjusted at working face. Paper picker on site.	
11/24/2016									0		
11/25/2016	3-14	WSW	30s	Dry	0	0	0	0	0	Trash Screens adjusted at working face. Paper picker on site.	
11/26/2016	1-11	S	30s	Dry	0	0	0	0	0	Trash Screens adjusted at working face. Paper picker on site.	
									0		
11/28/2016	5-22	SSE	40s	Wet	1	4.93	0	0	4.93	Trash Screens adjusted at working face. Paper picker on site.	
11/29/2016	2-19	SSW	40s	Wet	1	9.02	2	15.5	24.52	Trash Screens adjusted at working face. Paper pickers on site.	
11/30/2016	1-12	SSW	30s	Wet	1	8.7	2	14	22.7	Trash Screens adjusted at working face. Paper pickers on site.	

Dec-16

Contractor											
		Wind				ADS Picker	No. of	Picker	Total		
Date	Wind (mph)	Direction (from)	Temp (°F)	Dry/Wet	No. of ADS Pickers	Hours Worked	Contract Pickers	Hours Worked	Picker Hours	Remarks	
	· · · ·	WSW	30s	•			0				
12/1/16	5-22	_		Wet	1	8.3	_	0	8.3	Trash Screens adjusted at working face. Paper picker on site.	
12/2/2016	3-15	WSW	30s	Wet	1	8.35	0	0	8.35	Trash Screens adjusted at working face. Paper picker on site.	
									0		
		_					_	_	0		
12/5/2016	2-12	S	30s	Wet	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.	
12/6/2016	4-28	SW	30s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.	
12/7/2016	8-28	SW	20s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.	
12/8/2016	8-29	WSW	20s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.	
12/9/2016	3-18	WSW	10s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.	
									0		
									0		
12/12/2016	4-24	WSW	10s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.	
12/13/2016	3-16	WSW	0s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.	
										Trash Screens adjusted at working face. Paper picker on site. Additional cover applied. Working	
12/14/2016	7-32	WSW	0s	Dry	1	8.37	0	0	8.37	face minimized.	
12/15/2016	4-19	WSW	0s	Dry	1	10.32	0	0	10.32	Trash Screens adjusted at working face. Paper picker on site.	
12/16/2016	1-10	S	10s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.	
									0		
									0		
12/19/2016	3-19	S	0s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.	
12/20/2016	3-25	S	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.	
12/21/2016	1-16	S	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.	
12/22/2016	2-19	SSW	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.	
12/23/2016	1-10	S	30s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.	
, , , , ,					-			-	0	,	
									-		
									0		
40/05/55:	0	_	2.5		_		_		_	Trash Screens adjusted at working face. Working face minimized and sheltered. Additional cover	
12/26/2016	8-40	S	30s 20s	Wet	0	0	0	0 14	0	applied.	
12/27/2016 12/28/2016	7-23 2-15	WSW SSW	20s 20s	Wet Dry	0	0 7.82	7	39	14 46.82	Trash Screens adjusted at working face. Paper Pickers on site Trash Screens adjusted at working face. Paper pickers on site.	
12/20/2010	2-13	33 VV	205	ыу	1	7.02	,	33	40.02	Trash screens adjusted at working race. Paper pickers on site.	
12/29/2016	7-32	WSW	20s	Dry	1	7.82	5	24	31.82	Trash Screens adjusted at working face. Paper pickers on site. Working face minimized.	
12/30/2016	4-19	WSW	20s	Dry	1	8.58	6	31.5	40.08	Trash Screens adjusted at working face. Paper pickers on site.	

Attachment E-3

Annual Compliance (Stormwater) Inspection

State of Wisconsin Department of Natural Resources dnr.wi.gov

Annual Facility Site Compliance Inspection Report (AFSCI)

For Storm Water Discharges Associated With Industrial Activity Under Wisconsin Pollutant Discharge Elimination System (WPDES) Permit Form 3400-176 (R 8/10)

Page 1 of 4

Notice: This form is authorized by s. NR 216.29(2), Wis. Adm. Code. Submittal of a completed form to the Department is mandatory for industrial facilities covered under a Tier 1 storm water general permit. Facilities covered under a Tier 1 permit are not required to submit AFSCI reports after submittal of the second AFSCI report, unless so directed by the Department. However, these inspections and quarterly visual inspections shall still be conducted and results shall be kept on site for Department inspection. Facilities covered under a Tier 2 storm water general, industry-specific general or individual permit shall keep the results of their AFSCI and quarterly visual inspections on site for Department Inspection. Failure to comply with these regulations may result in fines up to \$25,000 per day pursuant to s. 283.91, Wis. Stats. Personally identifiable information on this form may be used for other water quality program purposes.

Please type or clearly print your answers to all questions. Section I: Facility/Site Information Facility/Site Name (As Appears on Permit Authorization) County Location Address/Description (if different from mailing address below) State 53032 Nu Da96 Municipality WI ☐ City ☐ Village Facility Identification (FID) and/or FIN Number (if known) Williams bour FID: FIN: PV Township Section II: Facility/Site Contact Person Local Contact Person Mailing Address (if different than site location address) Jacob Municipality (if different than above) Devations Telephone (include area code) State ZIP Code (if different than above) 930-387-0607 E-mail address or Website (if applicable) Fax (include area code) Jacob Marcelotsky@ advanced disposal, con Section III: Certification & Signature (Person attesting to the accuracy and completeness of Annual Facility Site Compliance Inspection Report.) This form must be signed by an official representative of the permitted facility in accordance with s. NR 216.22(7), Wis. Adm. Code. See instructions on page 4. If this form is not signed, or is found to be incomplete, it will be returned I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signature of Authorized Representative Telephone Number (include area code) 920-387 -0607 Company Name State ZIP Code 3031

How to Use this Form:

The first level of storm water monitoring consists of a comprehensive annual facility site compliance inspection (AFSCI) to determine if your facility is operating in compliance with your Storm Water Pollution Prevention Plan (SWPPP). You should use the results of this inspection to determine the extent to which your SWPPP needs to be updated to prevent pollution from new source areas, as well as to correct any inadequacies that the plan may have in handling existing source areas. This first level of monitoring is addressed in Section IV of this Annual Report on page 2.

The second level of storm water monitoring consists of quarterly visual observations of storm water leaving the site during runoff events caused by snow-melt or rainfall. This is a practical, low cost tool for identifying obvious contamination of storm water discharges, and can also help identify which practices are ineffective. The goal of quarterly inspections is to obtain results from a set of four inspections that are distributed as evenly as possible throughout the year and which depict runoff quality during each of the four seasons. This second level of monitoring is addressed in Section V of this Annual Report on page 3.

Annual Facility Site Compliance Inspection Report (AFSCI) Form 3400-176 (R 8/10)

Se	ction IV: Annual Facility Site Compliance Inspection			JAKA.
rer tha	e Annual Facility Site Compliance Inspection shall be adequate to verify that: your Storm Water Ponains current; potential pollution sources at your facility are identified; the facility site map and drain the Best Management Practices prescribed in your SWPPP are being implemented, properly open	nage map rei	main accura	ate: and
-	me of Person Conducting Inspection Inspection Date			
<u></u>	Acob Margeldsky 12/6/10			
Em	ployer Telephone Number			
(dvonced Dispari 920-387-0607			
the	ur inspection should start with a review of your written SWPPP kept at your facility. The SWPPP sl se inspections, you find that the provisions in your SWPPP are ineffective in controlling contamina charged from your facility.	nould be ame ited storm wa	ended if, thr iter from be	ough
1.	Has your SWPPP been updated to include current Non-Storm Water Discharge Evaluation results?	□bYes	□ No	□ N/A
2.	Has your SWPPP been amended for any new construction that would affect the site map or drainage conditions at the facility?	Æ□Yes	☐ No	□ N/A
3.	Has your SWPPP been amended for any changes in facility operations that could be identified as new source areas for contamination of storm water?	Æ⊃Yes	☐ No	□ N/A
4.	Are there any materials at the facility that are handled, stored, or disposed in a manner to allow exposure to storm water that are not currently addressed in your SWPPP?	☐ Yes	[DeNo	□ N/A
5.	Are there any maintenance or material handling activities conducted outdoors that have not been addressed in your SWPPP?	☐ Yes	D⊳No	□ N/A
6.	Are outside areas kept in a neat and orderly condition?	≥ Yes	☐ No	□ N/A
7.	Are regular housekeeping inspections made?	A Yes	☐ No	□ N/A
8.	Do you see spots, pools, puddles, or other traces of oils, grease, or other chemicals on the ground?	☐ Yes	- ∏ No	□ N/A
9.	Are particulates on the ground from industrial operations or processes being controlled?	Yes	☐ No	□ N/A
10.	Do you see leaking equipment, pipes or containers?	☐ Yes	ØNo	□ N/A
11.	Do drips, spills, or leaks occur when materials are being transferred from one source to another?	☐ Yes	No	□ N/A
12.	Are drips or leaks from equipment or machinery being controlled?	Ø Yes	☐ No	□ N/A
13.	Are cleanup procedures used for spilled solids?	✓ Yes	☐ No	□ N/A
14.	Are absorbent materials (floor dry, kitty litter, etc.) regularly used in certain areas to absorb spills?	∕ Yes	. □ No	□ N/A
15.	Can you find discoloration, residue, or corrosion on the roof or around vents or pipes that ventilate or drain work areas?	☐ Yes	Æ No	□ N/A
16.	Are Best Management Practices implemented to reduce or eliminate contamination of storm water from source areas at the facility?	Æ jYes	□No	□ N/A
17.	Are Best Management Practices adequately maintained?	.∕E Yes	□ No	□ N/A
18.	Are there significant changes to your SWPPP needed to correct plan inadequacies to effectively control a discharge of contaminated storm water from your facility?	☐ Yes	₽₽No	□ N/A

Annual Facility Site Compliance Inspection Report (AFSCI) Form 3400-176 (R 8/10) Page 3 of 4

Comments:

Section V: Quarterly Visual Inspection Reports

Quarterly Visual Inspections at each storm water discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Storm Water General Permits. These inspections should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

	Date of Inspection							
Outfall Number	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter				
ĺ	3/24/10	6/11/16	9/19/16	11/28/16				
2R	3/24/6	6/11/16	9/18/16	11/28/16				
3 A	3/24/16	6/11/16	9/19/16	11/28/16				
3 B	3/24/16	6/11/26	9/19/10	11/28/16				
40	3/24/16	6/1/16	9/19/16	11/28/16				
43	3/24/16	6/11/16	9/19/16	1/28/16				
50	3/24/10	6/11/16	9/19/16	11/28/16				
53	3/24/16	6/1/16	9/,9/11	11/22/16				
7	3/24/16	6/11/16	9/19/1-	11/28/16				
8	3/24/16	6/11/16	2/19/16	11/28/16				

Briefly summarize what you found when conducting your Quarterly Visual Inspections. (Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed storm water contamination.)

Attachment E-4

Quarterly Stormwater Inspection Reports

ATTACHMENT B Quarterly Facility SWPPP Inspection Form Glacier Ridge Landfill

Location: Glacier Ridge Landfill	ocation: Glacier Ridge Landfill Inspector (print name):					
Horicon, WI	JACOB MARCIPLOTSK	A.				
Date: 3/24/16	Signature Gard Marguet					
Time: 8:00	Weather: Rain					
Objectives:		Key:				
To identify sources of storm water po	llution	Y = Yes				
To verify BMP implementation		N = No				
To determine if significant facility cha	NA = Not Applicable					

	Best Management Practice (BMP) Inspection							
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes			
Leachate Loadout Pad	Y WA	Y N NA	Y (MYA	Y HONA	applion has Alarm-Testel-OK			
Aboveground Leachate Tank Containment Pad	Y NNA	€ N NA	Y MA	Y NAA	Pumping out Secondar Contain			
Indoor ASTs in Maintenance Shop	A MA	Y NTNA	Y (NTA	Y ®NA				

ATTACHMENT B (CONTINUED)

Quarterly Facility SWPPP Inspection Form Advanced Disposal Services Glacier Ridge Landfill

		Best I	Management Practice	(BMP) Inspection	
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Fuel Delivery and Unloading	Y NNA	Y N NA	Y M NA	Y NA	
Vehicle Fueling	Y NNA	Y N NA	Y (N)NA	Y (N)NA	capped of drain-redo to
Waste Storage (not associated with landfill)	Y N NA	Y W NA	Y WHA	Y NA	14
Soil Stockpiles	Y NNA	YN NA	Y N NA	Y NA	Contractor added to pile.
Sanitary Landfill Operations	Y (N) NA	€ N NA	Y (N)NiA	Y N NA	Regiading area of road
Access Roads	Y M NA	Y N NA	Y (M)NA	Y (N) NA	Need to redd stone
Public Drcp- off Area	Y DNA	MA	Y NNA	Y NA	
General Housekeeping	Y N NA	AN N	y W NA	Y NA	

ATTACHMENT B (CONTINUED)

Quarterly Facility SWPPP Inspection Form Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection								
	Potential	BMPs		Discharges				
	Significant	Implemented		Observed				
Activity or	Material	and	New BMP	(ponding,				
Area	Exposure(s)?	Maintained?	Required?	drainage)?	Summary Notes			

If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.

ATTACHMENT B (CONTINUED) Quarterly Facility SWPPP Inspection Form

Advanced Disposal Services Glacier Ridge Landfill

			Outfall Inspection			
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?	If so, is there a sheen or discoloration?	Turbidity	Floating Material (other than oil or grease)	Unusual Odors?	Comments
Outfall 1	Y (N)	Y N NA	Minimal Moderate Hig	h Y N	YN	Some ce Parano
Outfall 2	YN	Y N NA	Minimal Moderate Hig	T Y N	YN	
Outfall 2R	N (v)	Y N NA	Minimal Moderate Hig	h Y N	YN	
Outfall 3A	YN	Y N NA	Minimal Moderate Hig	h Y N	YW	
Outfall 3B	YW	Y N (NA	Minimal Moderate Hig	h Y 🕥	YN	
Outfall 4A	(Y) N	Y N NA	Minimal Moderate Hig	h Y N	Y N	
Outfall 4B	W W	Y N NA	Minimal Moderate Hig	h Y N	Y	
Outfall 5A	(D) N	Y N NA	Minimal Moderate Hig	h Y N	Y	
Outfall 5B	Y OF	Y N NA	Minimal Moderate Hig	h Y N	YN	
Outfall 6A	YN	Y N NA	Minimal Moderate Hig	h Y N	YN	
Outfall 6B	YN	Y N NA	Minimal Moderate Hig	h Y N	YN	
Outfall 7	YN	Y N NA	Minimal Moderate Hig	h Y N	Y (N)	
Outfall 8	YN	Y N NA	Minimal Moderate Hig	h Y W	Y(N)	

SWPPP Quarterly Structural Control Inspection Worksheet

Glacier Ridge Landfill

Quarter:	first	Date: 3/a4/	16 Name	e of Inspector: Take Margelofsky
Sedimer	ntation Basins:			
Basin	Erosion Present?	Sed. Level Acceptable?	Debris/Leachate Present?	Comments

Basin	Erosion Sin Present?				Debris/Leachate Present?		Comments		
	Yes	No	Yes	No	Yes	No			
SB - 1	1.11	p	0			6	Assect to seed by energy disconstant in signing		
SB – 2		p	X			7	Necel to seed by energy disapator in spring		
SB – 3		X	×			h	Tree fell into basin - need to Bull out		
SB – 4		X	X			b	Tree tell into basin - need to pull out		
SB – 5		b	8			b	Level high due to spring than trains		
SB – 6						/	The right wife to spring than Troins		

Drainage Ditches,	Culverts,	Flumes,	Diversion	Berms,	Energy	Dissipaters:
-------------------	-----------	---------	-----------	--------	--------	--------------

☐ No	Concerns	Noted,	or
⊠ See	Noted Is	sues Be	low

Location	Description	Observations
2015 can	Berms	All needs to be seeded
P		ALL MODELL AS ECONOMY



Quarter 1.56			Year	.016		
Outfall Number	Description of	Outfall (i.e. – ditc	h, concrete pi	pe, grassed	swale, etc.)	
	Disch	10206 C	Secl (Basin N	01-0	lischarge Pipe
Time of Rain Event (m	ilitary) Tir	ne of Inspection(military)	Estimated	Rain Event	Total (in inches)
3/a3/16 - Prese Name of Person Condu	up 8	:30am		1	4	
Name of Person Condu	acting Inspection	n			Inspection	Date /
Jake My	roelofs!	(A)			3/8	24/15
racility Name	O				,	/
Advanced Dispo	sal Glacier	Ridge Landf	ill			
Street Address		City		State		Zip Code
N7296 County R	load V	Horico	on	Wiscon	sin	53032
Color:	☐ Musty ☐ Cloudy ☐ Foam	☐ Yellow ☐ Sewage ☐ Opaque ☐ Garbage ☐ Sludge	☐ Brown ☐ Rotten E ☐ Dark ☐ Film ☐ Sediment	□ Oth	ner: ner: ner:	
Comments:		10	1 auti	S11 d	\`a.a	'a suach as
						in spection
-sed Basi	n leve	1 higher	- than	last	inspec	tion poit

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	اه			Year			
	15				OIG		
			5 - 5 11 /2	O	Olo		
Outfall N	umber	1 '.	of Outfall (i.e. – dit	1	1 0		
16	<	Dista	Discharge	at s	sed 13	WS'N	2
Time of F	Rain Event (n	nilitary)	Time of Inspection	(military)	Estimated	Rain Event	Total (in inches)
3/2	23/16-1	Present,	9:00		1,4		
Namé of	Person Cond	ucting Inspect	tion			Inspection	Date
1 7.1		^	1.01			3/0	1/16
7.0	Re 11	Aprox	10154			70	1/10
Facility N	ame	U	/\	***			
		osal Glacie	er Ridge Land	fill	1		
Street Ad			Ucity		State		Zip Code
N7296	County I	Road V	Horic	on	Wiscon	sın	53032
Observa							
Color:	⊠ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Oth		
Odor:	None None	☐ Musty	☐ Sewage	☐ Rotten E			
Clarity:	☐ Clear	2 Cloudy	☐ Opaque	☐ Dark	☐ Oth		
Solids:	None	☐ Foam	☐ Garbage	Film	☐ Oth		
Stains:	None	□ Oil	☐ Sludge	☐ Sedimen	ts 🗆 Oth	ner:	
Commer	nts:						
1	1 /	\		1 1 1	1	0	10.11.1
- Wa	eter t	eing	pumpe	ed into	0 6951	1 Tro	in Bitch
501	atile of	of Pho	150 7				
	14000	1.00			-		
-							
Protocol	Summary:						

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



		Year		P	
/			201	6	
Outfall Number	Description of Out	tfall (i.e. – ditch, co	ncrete pipe, grassed	swale, etc.)	
Time of Rain Event (m	Discharo	10 Pine @	Sed Basin	#3	
Time of Rain Event (m	nilitary) Time	Inspection (milita	ary) Estimated	Rain Event T	otal (in inches)
3/23/16- Prese		:30	, ,	ł.	
Name of Person Cond		^ ^	,	Inspection	Date
JAKE	SPIAM	lotsky		3/2	1/16
Facility Name	J				/
Advanced Dispo	osal Glacier Ri	dge Landfill			
Street Address		City	State		Zip Code
N7296 County F	₹oad V	Horicon	Wiscor	isin	53032
Odor: Clarity: Clear Cloud: None	Cloudy	Opaque □ D Garbage □ Fi	ilm □ Ot	her: her:	
Stains: None	□ Oil □ :	Sludge 🗆 Se	ediments 🗌 Ot	her:	
Starrist Divorte					

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter 1 54	Year	010	
Υ,	0	1016	
Outfall Number Description of Outfall (i.e. – d	itch, concrete pi	pe, grassed swale, etc	:.)
3B Biofiter@	Sed B	asin 3	
Time of Rain Event (military) Time of Inspectio	n (military)	Estimated Rain Ever	nt Total (in inches)
3/23/16-Present 9:40		.4	
Name of Person Conducting Inspection		Inspection	on Date
Jake Mangelofsky		3/20	1/16
Facility Name			/
Advanced Disposal Glacier Ridge Land	dfill		
Street Address City		State	Zip Code
N7296 County Road V Hor	icon	Wisconsin	53032
Observations: Color:	☐ Brown ☐ Rotten E ☐ Dark ☐ Film ☐ Sediment	☐ Other: ☐ Other:	
Comments: No discharge	oresent		

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	c ch				Year			
/	130					06		
O 4.5 - 11 N	<i>y</i>	D	-f O. +f-II	/: a alika	h, concrete pi	1010	surale etc	. 1
Outfall N				-				
44	7	Disch	arexe	Pipe	O Se	ed Bas	'N 30	4
Time of F	Rain Event (n	nilitary)	Time of Ins	spection	(military)	Estimated	Rain Ever	nt Total (in inches)
3/23/	16 - Prese	ucting Inspect	10)	00		.4		
Name of	Person Cond	ucting Inspect	ion			1	Inspection	on Date
JAI	Ke W	Target	ofsk.	Λ			3/	24/16
		()		1			1	l
Advan	ced Dispo	osal Glacie	er Ridge	Landf	ill			
Street Ad	ldress			City		State		Zip Code
N7296	County F	Road V		Horice	on	Wiscor	ısin	53032
Color: Odor: Clarity:		☐ Red ☐ Musty ☐ Cloudy	☐ Yello	age que	☐ Brown ☐ Rotten E ☐ Dark	☐ Ot	her: her:	
Solids:	None None	Foam	☐ Garl		☐ Film	□ Ot		
Stains:	None None	□ Oil	☐ Slud	ge	☐ Sedimen	ts 🗆 Ot	her:	
Commer	. 10							
Lou	drut c	ty - ;	P					
						_		

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	4			Year			
	1,5	·		1	1016)	
Outfall N	umber	Description of	of Outfall (i.e. – ditç	h, concrete pi	pe, grassed	swale, etc	·.)
40	}	Biolil	Her @ Sec	& Bas.	N# (-	
Time of F	Rain Event (n	nilitary) 1	Fime of Inspection((military)	Estimated	Rain Ever	it Total (in inches)
3/22	/16-Pre-	dres	10:15		,,,	1	
Name of	Person Cond	ucting Inspect				Inspection	on Date
12T	ke N	Blogaral	rsky			3/	24/16
Facility N						,	1
		osal Glacie	er Ridge Landf	ill	Τ.		
Street Ac			City		State	ai.a	Zip Code
N7296	County I	Road V	Horico	on	Wiscon	sin	53032
Observa	tions:						
Color:	Clear	□ Red	☐ Yellow	☐ Brown	☐ Otl	her:	
Odor:	☑ None	☐ Musty	☐ Sewage	☐ Rotten E			
Clarity:	∠ Clear	☐ Cloudy	□ Opaque	☐ Dark	☐ Otl		
Solids:	✓ None	☐ Foam	☐ Garbage	Film	☐ Otl		
Stains:	None	□ Oil	☐ Sludge	Sedimen	ts 🗆 Otl	ner:	
Comme	nts:						
	_						

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter 1,5t	Year	2016			
Outfall Number Description	of Outfall (i.e. – ditc	h, concrete pi	pe. grassed :	swale, etc.)	
SA Disch		ed Basi	~ * 5		
Time of Rain Event (military)	Time o \mathfrak{P} nspection	(military)	Estimated	Rain Event	Total (in inches)
Name of Person Conducting Inspect	10:30		14		
				Inspection	Date
Jake Marge	10/5/W			3/24/	16
Facility Name					
Advanced Disposal Glacio		ill			
Street Address	City		State		Zip Code
N7296 County Road V	Horice	on	Wiscon	sin	53032
Observations: Color: \(\subseteq \text{Clear} \text{Red} \)	☐ Yellow	☐ Brown	☐ Oth	201	
Odor: None Musty Clarity: Clear Cloudy	☐ Sewage ☐ Opaque	☐ Rotten E	gg □ Otl		
Solids: None Foam	☐ Garbage	Film	☐ Oth		
Stains: None Oil	☐ Sludge	Sediment			
Comments:					

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	. \			Year			
	130			1	ZNIF)	
Outfall N	umber Des	scription c	of Outfall (i.e. – dit	ch, concrete p	pipe, grassed sv	wale, etc.)	
40	2	Q.	20/11:20		1 70		
	Sain Event (militar		ime of Inspection	(military)	Estimated B	ain Event	Total (in inches)
		(y) 1		(IIIIIIIIIII)	Listillated	/	Total (III IIIclies)
3/23/1	6-Present		10:45		1	1	
Name of	Person Conductin	g Inspecti	on			Inspection	n Date
14[ce Mari	explort	2/2			3/24/	16
Facility N	ame	0	. 5 ()			7	
•		Glacie	r Ridge Land	fill			
Street Ad	<u> </u>		City		State		Zip Code
N7296	County Roa	d V	Horio	on	Wiscons	in	53032
Color: Odor: Clarity: Solids: Stains:	None Clear None C	Red Musty Cloudy Foam Oil	☐ Yellow ☐ Sewage ☐ Opaque ☐ Garbage ☐ Sludge	☐ Brown ☐ Rotten ☐ Dark ☐ Film ☐ Sedimer	☐ Oth	er: er: er:	
Comme	757		2	A.			
No	Disch	asge	Presen	1			
		0					
							T.

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	1 50			Year	2016	
Outfall No	umber	Description	of Outfall (i.e. – di	tch, concrete pi	ipe, grassed swale, et	tc.)
		<	100			
Time of R	ain Event (n	nilitary)	Time of Inspection	(military)	Estimated Rain Eve	ent Total (in inches)
, ,	•			(11	
	5 -Pres		11:00		19	
Name of I	Person Cond	ucting Inspect	ion		Inspect	tion Date
Jal	Ke	Marcal	ofsky		3	124/16
Facility N		0			/	
		osal Glacie	r Ridge Vand	lfill		
Street Ad			City		State	Zip Code
N7296	County I	Road V	Hori	con	Wisconsin	53032
Observation Color: Odor: Clarity: Solids: Stains:	☐ Clear ☐ None ☐ Clear ☐ None ☐ None	☐ Red ☐ Musty ☐ Cloudy ☐ Foam ☐ Oil	☐ Yellow ☐ Sewage ☐ Opaque ☐ Garbage ☐ Sludge	☐ Brown ☐ Rotten E ☐ Dark ☐ Film ☐ Sedimen	☐ Other: ☐ Other:	
Commen	ots:	char ge	1			

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year				
() 50	20	2016			
Outfall Number Description of Outfall (i.e. – di	tch, concrete pi	pe, grassed	swale, etc.)		
8 Wetland					
Time of Rain Event (military) Time of Inspection	(military)	Estimated	Rain Event	Total (in inches)	
3/23/6-Present 11:30		,4			
Name of Person Conducting Inspection			Inspection	Date	
Jake Margelofsky			3/24	/16	
Facility Name			0		
Advanced Disposal Glacier Ridge Land	lfill				
Street Address City		State		Zip Code	
N7296 County Road V Hori	con	Wiscon	sin	53032	
Color: □ Clear □ Red □ Yellow Odor: □ None □ Musty □ Sewage Clarity: □ Clear □ Cloudy □ Opaque Solids: □ None □ Foam □ Garbage Stains: □ None □ Oil □ Sludge	☐ Brown ☐ Rotten E ☐ Dark ☐ Film ☐ Sediment	☐ Otl	her: her: her:		
No discharge present Some Ice/slush in an	. s (v)				

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



ATTACHMENT B Quarterly Facility SWPPP Inspection Form Glacier Ridge Landfill

Location: Glacier Ridge Landfill Horicon, WI	Inspector (print name):			
Date: 6/1/16	Signature: Joel Mossey 7	\$10		
Time: 5:150m	Weather Rain/overcas			
Objectives:		Кеу:		
To identify sources of storm water	r pollution	Y = Yes		
To verify BMP implementation		N = No		
To determine if significant facility	changes require an update to the SWPPP	NA = Not Applicable		

		Best M	anagement Practice	(BMP) Inspection	1
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y WHA	Y N NA	Y NA	Y (Ñ) NA	Need autoprimp for overflow
Aboveground Leachate Tank Containment Pad	Y NNA	♥ N NA	Y (D) NA	Y (N)NA	Water pumped out via sump
Indoor ASTs in Maintenance Shop	Y W NA	(Y) AP NA	Y NONA	Y N NA	

ATTACHMENT B (CONTINUED)

Quarterly Facility SWPPP Inspection Form

Advanced Disposal Services Glacier Ridge Landfill

		Best M	Nanagement Practice	e (BMP) Inspection	
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Fuel Delivery and Unloading	Y NNA	€N NA	Y NNA	Ý (N) NA	water ponded up in overflow
Vehicle Fueling	Y N NA	Ø N NA	Y N NA	Y KINA	
Waste Storage (not associated with landfill)	Y NA	N NA	Y NA	y (N)NA	
Soil Stockpiles	Y (N) NA	N NA	Y NNA	7 N NA	Some Rain Kunoff
Sanitary Landfill Operations	Y (Ñ) NA	♥ N NA	Y MINIA	Y (N) NA	Rail MASE
Access Roads	Y (N)NA	♥ N NA	Y (N) NA	Y NA	
Public Drop- off Area	Y (h) NA	€ N NA	Y NA NA	Y (D) NA	
General Housekeeping	Y (N) NA	Ý N NA	Y NA	Y NA	

ATTACHMENT B (CONTINUED)

Quarterly Facility SWPPP Inspection Form

Advanced Disposal Services Glacier	Ridge Landfill
------------------------------------	----------------

		Best M	anagement Practic	e (BMP) Inspection	
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes

If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.

	-t		Outfall Inspection		4	
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?	If so, is there a sheen or discoloration?	Turbidity	Floating Material (other than oil or grease)	Unusual Odors?	Comments
Outfall 1	Y CH	Y (N) NA	Minimal Moderate High	Y W	Y	
Outfall 2	YN	Y N NA	Minimal Moderate High	Α Ν	-YN-	
Outfall 2R	(Y) N	Y N NA	Minimal Moderate High	Y	Y (R)	
Outfall 3A	Y (10)	Y W NA	Minimal Moderate High	Y (N)	Y 🕀	
Outfall 3B	Y P	Y (N) NA	Minimal Moderate High	Y	Y (18)	
Outfall 4A	Y 🕅	Y NA	Minimal Moderate High	Y 🐠	Y 75	
Outfall 4B	Y(N)	Y M NA	Minimal Moderate High	Y 🔊	Y 18	
Outfall 5A	(Y) N	Y (N) NA	Minimal Moderate High	Y	Y (13)	
Outfall 5B	Y	Y NA	Minimal Moderate High	Y (N)	Y P	
Outfall 6A	YN	Y N NA	Minimal Moderate High	YN	YN	
Outfall 6B	YN	Y N NA	Minimal Moderate High	YN	YN	
Outfall 7	Y	Y (N) NA	Minimal Moderate High	Y	Y D	
Outfall 8	YN	Y (N) NA	Minimal Moderate High	Y	Y N	

SWPPP Quarterly Structural Cor. ol Inspection Worksheet

Glacier Ridge Landfill

Quarter: 2nd	Date:6/1/16	Name of Inspector: Jake Margolofsky	
Sedimentation Basins:		J	

Basin Present? Acceptal		/11	Sed. Level Debris/Leacha Acceptable? Present?			Comments
	No	Yes	No	Comments		
SB - 1	10	1			10	
SB – 2	X	X			100	
SB - 3	×	×			h	Level of Basia (as)
SB – 4	90	>			\ \	
SB – 5	D	X			h	Level of Basin very low
SB - 6					/ 0	

Drainage Ditches, Culverts, Flumes, Diversion Berms, Energy Dissipaters:

☑ No Concerns Noted, or

 \square See Noted Issues Below

Location	Description	Observations
West + Nbrth	Energy Pissipators	Recently cleaned out
	offers J	THE COLUMN COLUMN TO THE COLUM



Quarter			Year			
Ung				01/		
d				010		
Outfall Number	Description of Outfall			1.21	swale, etc.)	
1	Discharge	@ Sc	of Basin	No		
Time of Rain Event (m	ilitary) Time of In	spection	(military)	Estimated	Rain Event	Total (in inches)
2:15-5:30	5:00.	21		.4		
Name of Person Condu	acting Inspection				Inspection	Date
Take Marc	relastr				6/11	16
Facility Name	9				11	
Advanced Dispo	sal Glacier Ridge	Landf	ill			
Street Address		City		State		Zip Code
N7296 County R	load V	Horico	on	Wiscon	sin	53032
•						
Observations:						
Color: Clear	☐ Red ☐ Yelle	ow	☐ Brown	☐ Otl	ner:	
Odor: None	☐ Musty ☐ Sew	age	☐ Rotten E	gg 🗌 Otl	her:	
Clarity: ☐ Clear	☐ Cloudy ☐ Opa	que	☐ Dark	☐ Otl	ner:	
Solids: None	☐ Foam ☐ Garl	bage	☐ Film	☐ Otl	ner:	
Stains: None	□ Oil □ Slud	lge	☐ Sediment	ts 🗌 Otl	ner:	
No Discharge	e present.					
Everything lo	ohs O.K.					

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year		
242		1016	
Outfall Number Description of Outfall	(i.e. – ditch, concrete pi	pe, grassed swale, etc.)	
2R Dischau	spection (military)	Basin &	
Time of Rain Event (military) Time of Ins	spection (military)	Estimated Rain Event	Total (in inches)
2:15-5:30 5:1	5 am	4	
Name of Person Conducting Inspection		Inspection	Date
Jake Marcadolsky Facility Name		6/1	166
Advanced Disposal Glacie Ridge			l =: 0
Street Address	City	State	Zip Code
N7296 County Road V	Horicon	Wisconsin	53032
Observations: Color: ◯ Clear □ Red □ Yello	ow 🗆 Brown	☐ Other:	
Odor: SaNone Musty Sew			
Clarity: □ Clear □ Cloudy □ Opa		☐ Other:	
Solids: Solids		☐ Other:	
Stains: None Oil Slud		ts 🗌 Other:	
Comments: Discharge present Water from Phase 8 the diffeh	3 cell construct	lion being pu	unped inte

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter		Y	ear		
Jucy				016	
d		4: 1: 1	01	Cr I -	- \
Outfall Number	Description of Outfall				
34	Dischar	up P	ipe @	Estimated Rain Ever	73
Time of Rain Event (m	ilitary) Time of In	spection (mi	ilitary)	Estimated Rain Ever	nt Total (in inches)
2:15-5:30		36		,4	
Name of Person Condu	ucting Inspection			Inspecti	on Date
Jake Managelofsky 6/1/16					1/16
Facility Name	0			1	/
Advanced Dispo	sal Glacier Ridge	e Landfill			
Street Address		City		State	Zip Code
N7296 County R	load V	Horicon	L	Wisconsin	53032
Observations: Color:	☐ Red ☐ Yello ☐ Musty ☐ Sew ☐ Cloudy ☐ Opa ☐ Foam ☐ Gar ☐ Oil ☐ Sluce	vage ique bage	Brown Rotten E Dark Film Sediment	☐ Other: ☐ Other:	
Comments:	parale be	esent	5		
	0 1				
Sed Ba	six level	very	low		

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter			Year		
2 rd			a	016	
Outfall Number	Description	of Outfall (i.e. – dito	h, concrete pi	pe, grassed swale, et	c.)
38	B:	of Hero	Sed B		
Time of Rain Event (military)	Time of Inspection	(military)	Estimated Rain Eve	nt Total (in inches)
2:15-5:30		5:35		, ()	
Name of Person Con				Inspect	ion Date
Take M. Facility Name	Etolopra	\sim		61	1116
Facility Name	0	\bigcirc			
Advanced Disp	osal Glacie	er Ridge Landf	ill		
Street Address		City		State	Zip Code
N7296 County	Road V	Horico	on	Wisconsin	53032
Observations: Color:	☐ Red ☐ Musty ☐ Cloudy ☐ Foam	☐ Yellow ☐ Sewage ☐ Opaque ☐ Garbage	☐ Brown ☐ Rotten E ☐ Dark ☐ Film	Other: Gg Other: Other: Other:	
Stains:	Oil	☐ Sludge	Sediment	ts 🗌 Other:	
Comments:	ischa	ed Di	esend	dwing i	nspedio

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's inspections.



Quarter	Year		
2nd		016	
Outfall Number Description of Outfall (i.e. – dito	ch, concrete pir	pe, grassed swale, etc.)	
UA Dishary Pip	e @ 3	Sed has seent 1	8 H
	(military)	Estimated Rain Event 7	Total (in inches)
2:15-5:30 5:43		. 4	
Name of Person Conducting Inspection		Inspection	Date
Jake Margelofshy		6/1/	/16
Facility Name		//	
Advanced Disposal Glacier Ridge Landf	ill		
Street Address City		State	Zip Code
N7296 County Road V Horico	on	Wisconsin	53032
Observations: Color:	☐ Brown ☐ Rotten E ☐ Dark ☐ Film ☐ Sediment	☐ Other: ☐ Other:	
Comments:			
No discharge present			
Sed Basin revel yeu	y low		

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter		Year	^		
Just		(2016	2	
2			3,010		1
	n of Outfall (i.e. – ditc		A 1	wale, etc.)
	obiliter @ S	- A			
Time of Rain Event (military)	Time of Inspection (military)	Estimated	Rain Event	Total (in inches)
2:15-5:30	5,50		~ 1	Å	V V
Name of Person Conducting Inspe	ction			Inspectio	n Date
Jake Margela	SIS			6/1	116
Facility Name				1	
Advanced Disposal Glac	ier Ridge Landfi				
Street Address	City		State		Zip Code
N7296 County Road V	Horico	n	Wiscon	sin	53032
Observations:					-
Color: Clear Red		☐ Brown	☐ Oth		
Odor: None Musty		☐ Rotten E			
Clarity: Clear Cloudy	√ □ Opaque	☐ Dark	☐ Oth	er:	
Solids: ☐ None ☐ Foam	☐ Garbage	☐ Film	☐ Oth	er:	
Stains:	☐ Sludge	☐ Sediment	ts 🗆 Oth	er:	
No discharge	present				

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's inspections.



Quarter	Year	4	
Just	()	016	
Outfall Number Description of Outfall	fi a - ditch concrete ni	pe, grassed swale, etc.)	
5A Dischar	spection (military)	Barin #)	
Time of Rain Event (military) Time of In	spection (military)	Estimated Rain Event	Total (in inches)
2:15-5:30 6:	00	a Y	
Name of Person Conducting Inspection		Inspection	n Date
Jake Margel & Ste	P	6/1/	16
Facility Name		11	
Advanced Disposal Glacier Ridge	e Landfill	,	
Street Address	City	State	Zip Code
N7296 County Road V	Horicon	Wisconsin	53032
Observations: Color: Color: None Clarity: Clear Cloudy Clarity: None Foam Gar Stains: None Oil Sluce	vage □ Rotten E aque □ Dark bage □ Film	☐ Other: ☐ Other:	
Comments:			
Low Turbitity flow.	Clear, Clea	N	

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year		
2^{n^2}		2016	
Outfall Number Description of Outfa	all (i.e. – ditch, concrete p	oipe, grassed swale, etc	c.)
Biof	iHer		
, , , ,	Inspection (military)	Estimated Rain Ever	nt Total (in inches)
2:15-5:30	05	μ, η	
Name of Person Conducting Inspection		Inspecti	on Date
Jake Margeleast	?	16/	/16
Facility Name		/ /	
Advanced Disposal Glacier Rid	ge Landfill		
Street Address	City	State	Zip Code
N7296 County Road V	Horicon	Wisconsin	53032
•			
Observations:			
Color:	ellow 🗌 Brown	☐ Other:	
Odor:	ewage 🗌 Rotten	Egg Other:	
Clarity: ☐ Clear ☐ Cloudy ☐ O	paque 🗆 Dark	☐ Other:	
Solids: None Foam G	arbage 🗌 Film	☐ Other:	
Stains: ☐ None ☐ Oil ☐ St	udge 🗆 Sedime	nts 🗌 Other:	
Comments:	present		

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year		
Just		Olb	
2	0	010	
Outfall Number Description of Outfall (i	.e. – ditch, concrete pi	pe, grassed swale, etc	c.)
	8		
Time of Rain Event (military) Time of Inst	pection (military)	Estimated Rain Ever	nt Total (in inches)
	/		
G#5 2:15-5:30 6:12)		
Name of Person Conducting Inspection		Inspecti	on Date
Jake Marcelosly		6/	1/16
Facility Name		/	
Advanced Disposal Glacier Ridge	Landfill		
Street Address	City	State	Zip Code
N7296 County Road V	Horicon	Wisconsin	53032
Observations: Color: Clear Red Yellor	w 🗌 Brown	☐ Other:	
Odor: None Musty Sewa	ige 🗆 Rotten E	gg 🗌 Other:	
Clarity: ☐ Clear ☐ Cloudy ☐ Opaq	que 🗌 Dark	☐ Other:	
Solids: None Foam Garba	age 🗌 Film	☐ Other:	
Stains: ☐ None ☐ Oil ☐ Sludg	ge 🗆 Sediment	ts 🗌 Other:	
Comments:			

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year	,				
120		2016				
2		AU IV				
Outfall Number Descriptio	n of Outfall (i.e. – ditch, concr	ete pipe, grassed swale, et	c.)			
2	1 lotter d					
Time of Rain Event (military)	Time of Inspection (military) Estimated Rain Eve	nt Total (in inches)			
) Estimated Name and	(,			
2:15-5:30	6:26	, 9				
Name of Person Conducting Inspe	ction	Inspect	ion Date			
200		11.	111			
Jake Margelo	RIV	10/1	16			
racility Name	O	, ,				
Advanced Disposal Glac	ier Ridge Landfill					
Street Address	City	State	Zip Code			
N7296 County Road V	Horicon	Wisconsin	53032			
Observations:						
Color: Clear Red	☐ Yellow ☐ Bro	wn 🗌 Other:				
Odor: None Musty	☐ Sewage ☐ Rot	☐ Rotten Egg ☐ Other:				
Clarity: Clear Cloudy	/ 🗆 Opaque 🗆 Dar	k 🗌 Other:				
Solids: None Foam	☐ Garbage ☐ Film	n 🗆 Other:				
Stains: None Oil	☐ Sludge ☐ Sed	iments Other:				
Comments:						
We dischar	- 010co 1					
100 012CHOUR	to buscus					
	0 1					

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



ATTACHMENT B Quarterly Facility SWPPP Inspection Form Glacier Ridge Landfill

Location: Glacier Ridge Landfill	Inspector (print name):	, 1
Horicon, WI	Inspector (print name): JACOb Margela	otska
Date: 9/19/16	Signature: July Man	
Time: 95:00 er	Weather Overcast / Rain	
Objectives:		Key:
To identify sources of storm water po	Illution	Y = Yes
To verify BMP implementation		N = No
To determine if significant facility characters.	anges require an update to the SWPPP	NA = Not Applicable

	1	Best I	Management Practice	(BMP) Inspection	
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y N NA	Y NA	Y (N)NA	Y (N)NA	New Pump being instilled
Aboveground Leachate Tank Containment Pad	Y NNA	ØN NA	Y NA	Y NANA	Rainwater Pringed out
Indoor ASTs in Maintenance Shop	Y NA	Y N NA	Y NA	Y NA	

	· ·	Best A	Aanagement Practice	e (BMP) Inspection	
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Fuel Delivery and Unloading	Y NA	Y) N NA	Y (N)NA	Y (N) NA	land 11 Good - Shop tank being purped
Vehicle Fueling	Y NA	Y N NA	Y N NA	Y NNA	
Waste Storage (not associated with landfill)	Y (N) NA	A) N MA	Y (NT NA	Y NA	Getting Rid of Freon drop off wrea
Soil Stockpiles	Y NNA	O N NA	Y NNA	Y NNA	
Sanitary Landfill Operations	Y NNA	Ý N NÅ	Y (N) NIA	Y (N) NA	
Access Roads	Y N NA	Y) N NA	Y PNA	Y (N) NA	
Public Drop- off Area	Y (N)NA	M NA	Y B NA	Y (NA	Golling Rid of freom Box
General Housekeeping	Y (N)IA	(Y) N NA	Y (D)NA	Y (N)NA	

		Best M	anagement Practic	e (BMP) Inspection	1
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes

If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.

						Outfall Inspe	ction			7			
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?		so, is the sheen liscolora			Turbidity		Mater tha	oating ial (other n oil or ease)		usual ors?	Comments	
Outfall 1	(Y) N	Y	0	NA	Minima	Moderate	High	Υ	CA)	Υ	N		
Outfall 2	YN	Υ	Ν	NA	Minimal	Moderate	High	Y	N	Υ	N		
Outfall 2R	(Y) N	Υ	N	NA	Minimal	Moderate	High	Y	N	Υ	(N)		
Outfall 3A	(A) N	Υ	(N)	NA	Minimal	Moderate	High	Y	(N)	Υ	N		
Outfall 3B	YO	Υ	(N)	NA	Minimal	Moderate	High	Υ	(M)	Υ	N		
Outfall 4A	N	Υ	(N)	NA	Minimal	Moderate	High	Υ	(N)	Y			
Outfall 4B	(A) N	Υ	N	NA	Minimal	Moderate	High	Y	()	Υ	(1)		
Outfall 5A	N	Υ	(N)	NA	Minimal	Moderate	High	Y	N	Υ	N		
Outfall 5B	(Y) N	Υ	N	NA	Minimal	Moderate	High	Υ	N	Υ	N		
Outfall 6A	YN	Υ	N	NÄ	Minimal	Moderate	High	Y	N	Υ	N		
Outfall 6B	YN	Υ	N	NA	Minimal	Moderate	High	Y	N	Υ	N		
Outfall 7	Y (N)	Υ	(N)	NA	Minimal	Moderate	High	Υ	(1)	Υ	N		
Outfall 8	Y (N)	Υ	(N)	NA	Minimal	Moderate	High	Υ	W	Υ	(N)		

ATTACHMENT B Quarterly Facility SWPPP Inspection Form Glacier Ridge Landfill

Location: Glacier Ridge Landfill	Inspector (print name):					
Horicon, WI	Take Marcolofsky					
Date: 11/23/16	Signature: Data Mana					
Time: 2,00pm	Weather: Raining					
Objectives:		Key:				
To identify sources of storm water	pollution	Y = Yes				
To verify BMP implementation		N = No				
To determine if significant facility	changes require an update to the SWPPP	NA = Not Applicable				

	Best Management Practice (BMP) Inspection										
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes						
Leachate Loadout Pad	Y WNA	Y N NA	Y (V)NA	Y (1) NA	Autonatic Pamp hooked MP						
Aboveground Leachate Tank Containment Pad	Y (N)NA	NA MA	Y NNA	Y NNA	Pumped i'm sumppung						
Indoor ASTs in Maintenance Shop	Y (N) NA	€N NA	Y NNA	Y MA							

ATTACHMENT B (CONTINUED) Quarterly Facility SWPPP Inspection Form

Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection										
	Potential Significant	BMPs Implemented		Discharges Observed	- 16					
Activity or	Material	and	New BMP	(ponding,						
Area	Exposure(s)?	Maintained?	Required?	drainage)?	Summary Notes					

If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.

ATTACHMENT 3 (CONTINUED)

Quarterly Facility SWPPP Inspection Form Advanced Disposal Services Glacier Ridge Landfill

M	Best Management Practice (BMP) Inspection											
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes							
Fuel Delivery and Unloading	Y (N)NA	€ N NA	Y NA	Y (N)NA								
Vehicle Fueling	ANG 13 Y	NA	Y N NA	Y N NA	Wen Area needed since Pill a trucks of once pump overflow manually							
Waste Storage (not associated with landfill)	y QNA	Y NA	Y A DIA	Y NA	Washing or from oran							
Soil Stockpiles	Y N NA	Y) N NA	Y N NA	Y NNA	Taking soils from stockpile area							
Sanitary Landfill Operations	Y ŴNA	Ø N NA	Y Wina	Y ®NA								
Access Roads	Y NNA	M NA	Y NA	Y (N)NA								
Public Drop- off Area	YNNA	(Y) N NA	Y (N DA	Y NNA	No lange eccepting freen applicaces							
General Housekeeping	Y WNA	€ N NA	Y (N)NA	Y (NINA								

ATTACHMENT B (CONTINUED) Quarterly Facility SWPPP Inspection Form Advanced Disposal Services Glacier Ridge Landfill

			Outfall Inspection			
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?	If so, is there a sheen or discoloration?	Turbidity	Floating Material (other than oil or grease)	Unusual Odors?	Comments
Outfall 1	YN	Y N NA	Minimal Moderate High	YN	Y N	
Outfall 2	YN	Y N NA	Minimal Moderate High	Y N	YN	
Outfall 2R	(Y) N	Y (N) NA	Minimal Moderate High	Y (N)	Y (N)	few Plastic Bags around
Outfall 3A	N	Y N NA	Minimal Moderate High	Y	Y	The Thirty They's given
Outfall 3B	YN	Y N (NA)	Minimal Moderate High	Y (N)	Y Ñ	
Outfall 4A	Y (N)	Y N NA	Minimal Moderate High	Y ©	Y	
Outfall 4B	Y (N)	Y N NA	Minimal Moderate High	Y W	Y M	
Outfall 5A	(Y) N	Y N NA	Minimal Moderate High	Y (H)	Y 🗑	
Outfall 5B	YN	Y N (NA)	Minimal Moderate High	Y	Y	
Ourfall 6A	YN	Y N NA	Minimal Moderate High	YN	YN	
Outfall 6B	YN	Y N NA	Minimal Moderate High	YN	YN	
Outfall 7	Y (N)	Y N (NA)	Minimal Moderate High	Y	Y	
Outfall 8	YW	Y N NA	Minimal Moderate High	YN	YB	

SWPPP Quarterly Structural Control Inspection Worksheet Glacier Ridge Landfill

Erosion					
Present?		ed. Level eptable		eachate	Comments
Yes N	o Ye	No	Yes	No	
×	2 2			6	
X	0 6				Pickad pup plastic Bags in the area along to
1	2 6			1	Pickad pup plastic Bags in the area along to
X	2 2			1	
×	ط د			-	
-/-			THE STATE OF		
	X	XX XX	X	X	X



Quarter			Year						
4/4	4			2016					
Outfall Number	Description	of Outfall (i.e. – d	1		e. etc.)				
outian Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.) Discharge Pipe								
				1					
Time of Rain Event (m	ilitary)	Time of Inspection	n (military)	Estimated Rain	Event Total (in inches)				
12:00- 2:00 pm ,9 inches									
Name of Person Condi	ucting Inspe	ction		Ins	pection Date				
Jake Marc Facility Name	relofsl	V Pro		1	128/16				
Facility Name	2				//				
Advanced Dispo	sal Glaci	ier Ridge Land	dfill						
Street Address		City		State	Zip Code				
N7296 County F	Road V	Hori	con	Wisconsin	53032				
		3.11							
Observations:									
Color: Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:					
Odor: 🔀 None	☐ Musty	☐ Sewage	☐ Rotten E						
Clarity: Clear	Cloudy	☐ Opaque	☐ Dark	☐ Other:					
Solids: 🔀 None	☐ Foam	☐ Garbage	☐ Film	☐ Other:					
Stains: None	□ Oil	☐ Sludge	☐ Sedimen	ts 🗌 Other:					
Comments:									

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter				Year			
4	_			1	2016		
		10 11 11	e ea	(XOIX	ounlo oto	
Outfall Number	Description						
aR	Disch	igige Pi	pe en	of so	ed Bas'	1	t Total (in inches)
Time of Rain Event (m	nilitary)	Time of In:	spection (r nilitar y)	Estimated	Rain Even	t Total (in inches)
12:00 - 80	2.0.0	21	5 pm			9 1001	0.5
Name of Person Condi					Į į	Inspection	on Date
J. a Ke M	Arcolofs	X				11/2	8/16
Facility Name						7	1
Advanced Dispo	sal Glacie	er Ridge	Landf	ill			-14
Street Address			City		State		Zip Code
N7296 County F	Road V		Horico	on	Wiscon	sin	53032
Observations:							
Color: \(\sum_{\text{Clear}} \)	☐ Red	☐ Yelld	wc	☐ Brown	☐ Ot	her:	
Odor: None	☐ Musty	☐ Sew	age	☐ Rotten E	gg 🗆 Ot	her:	
Clarity: Clear	☑ Cloudy	☐ Opa	que	☐ Dark	□ Ot	her:	
Solids:	☐ Foam	₽ Garl	oage	☐ Film	☐ Ot		
Stains: None	□ Oil	☐ Slud	ge	☐ Sediment	ts 🗆 Ot	her:	
	* *						P. + 41
Comments:							
Com a ala	×100	Lar.		Komma	a day	25	Sed Basin
some po	1242	bricis	D.	A OMM	Evelo	00	2001 1300

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	LIT	~			Year	016		
Outfall N	lumber	Description	of Outfall	(i.e. – dito	ch, concrete pi	pe, grassed	swale, etc.)
3/	Δ	Disch	nareye	Pipe		,		
Time of I	Rain Event (m	nilitary)	Time of in:	spection	(military)	Estimated	Rain Event	t Total (in inches)
12:	00-Pa	esent	2.	30 pr	_	11/#	16	n Date
		ucting Inspect					Inspectio	n Date
5.	ske	MArge	lofsk	1			11/2	18/16
Facility N	lame	0	9				,	
Advan	ced Dispo	osal Glacie	r Ridge	Landf	ill			
Street Ac	ddress			City		State		Zip Code
N7296	County F	Road V		Horic	on	Wiscon	sin	53032
Observa								
Color:	☐ Clear	Red	☐ Yello		Brown	Ot		
Odor:	₩ None	☐ Musty	☐ Sew		☐ Rotten E	gg □ Ot □ Ot		
	⊠Clear	Cloudy	□ Opa		☐ Dark	☐ Ot		
Solids:	None	Foam	Garl		☐ Film ☐ Sedimen			
Stains:	☑ None	□ Oil	☐ Slud	ge	☐ Sealmen	is 🗀 Ot	1161.	
Comme	nts:							
No	dist	The contract of	500					
		,						

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter			Year			
LIT			2	016		
Outfall Number	Description of Outfa	ll (i.e. – dito	h, concrete pi	pe, grassed	swale, etc.)	
3B	B:of.He	ct o	end	of p	bne	
Time of Rain Event (m	ilitary) Time of I	nspection	(military)	Estimated	Rain Event	Total (in inches)
12:00-8	resem 2	:45 8	, M	, C	Inspection	S
Name of Person Condu					Inspection	Date
Jake M Facility Name	praelofsky				11/28	/16
					/	
Advanced Dispo	sal Glacier Ride		ill			
Street Address		City		State	•	Zip Code
N7296 County R	Road V	Horice	on	Wiscon	sin	53032
Observations: Color: Clear	□ Red □ Ye	llow	Brown	☐ Otl	ner:	
Odor: None	☐ Musty ☐ Se		☐ Rotten E			
Clarity:	☐ Cloudy ☐ Or		☐ Dark	☐ Otl	her:	
Solids: None		rbage	☐ Film	☐ Otl	her:	711
Stains: None	□ Oil □ Slu	ıdge	☐ Sediment	ts 🗌 Otl	ner:	
Comments:	charge du	ning in	spection			

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year	^ · /	
Lb	20)16	
Outfall Number Description of Outfall (i.e. –	ditch, concrete pi	pe, grassed swale, etc.)	
Time of Rain Event (military) Time of Inspection	on (military)	Estimated Rain Event	Total (in inches)
		. 9	
12:00- Present 3:006	4./	Inspection	n Date
Name of Person Conducting Inspection		Inspection /	/ Date
Jake Margelofsky		11/28	3/16
Tuelity Name		/ /	
Advanced Disposal Glacier Ridge Lan	dfill		1
Street Address City		State	Zip Code 53032
N7296 County Road V Hor	icon	Wisconsin	53032
Observations:			
Color: Clear Red Yellow	Brown	Other:	
Odor: None Musty Sewage	☐ Rotten E		
Clarity: Clear Cloudy Opaque	☐ Dark	Other:	
Solids: None Foam Garbage	Film	Other:	
Stains: None Oil Sludge	☐ Sediment	ts 🗆 Other:	
Comments:			
No discharge duin	even	+	

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter		Year			
4+		2	016		
Outfall Number Description of Outfall ((i.e. – ditch	, concrete pip	oe, grassed s	swale, etc.)	
43					
Time of Rain Event (military) Time of Ins	spection (n	nilitary)	Estimated	Rain Event	Total (in inches)
12:00-Present 3					
Name of Person Conducting Inspection				Inspection	Date
Jake Murgelotsky	,			11/2	28/16
		П			
Advanced Disposal Glacier Ridge Street Address	City	II.	State		Zip Code
N7296 County Road V	Horico	n	Wiscon	sin	53032
147250 County Road V	1101100				
Observations:					
Color: Clear Red Yello	ow [Brown	☐ Oth	ner:	
Odor: None Musty Sew	age [☐ Rotten E	gg 🗆 Oth	ner:	
Clarity: ☐ Clear ☐ Cloudy ☐ Opa	-1	☐ Dark	☐ Oth		
Solids: None Foam Garb		☐ Film	Oth		
Stains: None Oil Slud	ge L	☐ Sediment	s 🗆 Oth	ner:	
Comments:					
No discharge dur	ing &	rain e	vent		
V	0				

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter	Year		
2/4	20	16	
Outfall Number Description of Outfall (i.e.	 ditch, concrete pip 	oe, grassed swale, etc.)	
Time of Rain Event (military) Time of Inspec	pe		
Time of Rain Event (military) Time of Inspec	tion (military)	Estimated Rain Event	Total (in inches)
12:00- Present 3:3	Opn	1/200	, 9
Name of Person Conducting Inspection		Inspection	n Date
Jake Margelofsky	7111	11/28	3/16
Facility Name			
Advanced Disposal Glacier Ridge La	andfill		
Street Address Cit	y	State	Zip Code
N7296 County Road V Ho	oricon	Wisconsin	53032
Observations:			
Color: ☐ Clear ☐ Red ☐ Yellow	☐ Brown	☐ Other:	
Odor: ☑ None ☐ Musty ☐ Sewage			
Clarity: 🖾 Clear 🗌 Cloudy 🔲 Opaque		☐ Other:	
Solids: ☑ None ☐ Foam ☐ Garbage		Other:	
Stains: - None Oil Sludge	☐ Sediment	s 🗆 Other:	
Comments:			,

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



	Year		
	/ C	2016	
n of Outfall (i.e. – dito	ch, concrete pi	ipe, grassed swale,	etc.)
in Etter			
		Estimated Rain E	event Total (in inches)
3:45pm	~	A STATE OF THE STA	.9
ection		inspe	ection Date
elossky		1	128/16
-			,
ier Ridge Landf	ill		
City		State	Zip Code
Horic	on	Wisconsin	53032
	☐ Brown ☐ Rotten E ☐ Dark	☐ Other:	
☐ Garbage	☐ Film		
☐ Sludge	☐ Sedimen	ts U Other:	
y Present			
	Time of Inspection 3:45pm ection City Horice Yellow Sewage Y □ Opaque	Time of Inspection (military) 3:45p~ ection City Horicon Yellow Brown Sewage Rotten Film Garbage Film Sludge Sedimen	an of Outfall (i.e. – ditch, concrete pipe, grassed swale, concret

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter 4		Year	1016)		
Outfall Number Description	n of Outfall (i.e. – dito	h, concrete pip	oe, grassed s	swale, etc.)		
	Swale					
Time of Rain Event (military)	Time of Inspection	(military)	Estimated	Rain Event î	Total (in inches)	
12:00- Present			,9			
Name of Person Conducting Inspe	ection	,		Inspection	Date	
Jake MARG	elofsty			11/2	18/16	
Facility Name	0					
Advanced Disposal Glad	-	ill			Zin Codo	
Street Address	City Horic	2.10	State Wiscon:	cin	Zip Code 53032	
N7296 County Road V	Horico	on	VVISCOIT	5111	33032	
Observations:						
Color: Clear Red	☐ Yellow	☐ Brown	own 🗆 Other:			
Odor: None Musty		☐ Rotten Eg				
Clarity: Clear Cloud		☐ Dark	Oth			
Solids: None Foam	Garbage	Film	Oth			
Stains: None Oil	☐ Sludge	☐ Sediment:	s 🗌 Oth	ier:	16	
Comments:						
No disth	or ge dow	1 - mil	4 sped	-0-		
	O.	0	1			

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



Quarter			Year	201	5	
Outfall Number	Description of Outfal	l (i.e. – dito	h, concrete pi	pe, grassed	swale, etc.)	
8		Wet	\			
Time of Rain Event (m	nspection	(milita ry)	Estimated	Rain Event	Total (in inches)	
12:00-Pres	15 pm		,	· · · · · · · · · · · · · · · · · · ·	Data	
Name of Person Condu	icting Inspection				Inspection	Date
Jake Ma	ryelosky				11/23	8/16
Facility Name	V				,	ž.
Advanced Dispo	sal Glacier Ridg		ill			
Street Address		City		State		Zip Code
N7296 County R	load V	Horic	on	Wiscon	isin	53032
N7296 County Road V Horicon Wisconsin 53032 Observations: Color: Clear Red Yellow Brown Other: Odor: None Musty Sewage Rotten Egg Other: Clarity: Clear Cloudy Opaque Dark Other: Solids: None Foam Garbage Film Other: Stains: None Oil Sludge Sediments Other:						
× × × × ×	7		V m second	1		
No of	scharge di	is no	Trebec	1.0		
						-

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.



APPENDIX F

Biopile Processing Facility

Attachment F-1

Pre-treatment Analytical Results

GLACIER RIDGE LANDFILL

Bio Pile #2016

January 28, 2015 through October 31, 2016

PROFILE:	#	GENERATOR	GENERATOR MATERIAL			TONS	DRO	GRO
GRL 06067	В	Alliant Energy	C-Soil/ Pet-Fuel Oil	34D	@	5.91	27,391	
GRL 14108	В	Kngston Corner LLC	C-Soil/ Pet-Used Oils	34F	@	85.14	3,380	
GRL 15007	В	Premium Environmental	C-Soil/ Pet-Fuel Oil	34D	@	133.27	8,750	
GRL 15022	В	Union Pacific Railroad	C-Soil/ Pet-Fuel Oil	34D	@	26.99	6,250	
GRL 15035	В	City of Beaver Dam	C-Soil/ Pet-Ldd Gas-ADC	33A	@	18.22		924
GRL 15066	В	X-Cel Tooling	C-Soil/ Pet-Fuel Oil	34D	@	0.67	5,000	
GRL 15070	В	John Deere Horicon Works	C-Soil/ Pet-Fuel Oil	34D	@	1,446.00	2,000	460
GRL 15085	В	Helings/Ruth Braunschweig Property	C-Soil/ Pet-Unldd Gas-ADC	33B	@	559.81		535
GRL 15111	В	John Deere Horicon Works	C-Soil/ Pet-Used Oils	34F	@	44.54	2,555	
GRL 16004	В	WisDOT ID #3364-03-73 Cole's Amoco	C-Soil/ Pet-Ldd Gas-ADC	33A	@	1,043.29	3,000	3,000
GRL 16009	В	Sanimax	C-Soil/ Pet-Fuel Oil	34D	@	55.40	25,450	
GRL 16036	В	Herman Management Company	C-Soil/ Pet-Fuel Oil	34D	@	5.12	4,710	
GRL 16059	В	Caseys	C-Soil/ Pet-Unldd Gas-ADC	33B	@	0.26	386	
		Soils incorporated from Previous Bio Pil	es			11,000.00		
		Soils from LGRL Waste Relocation				17,560.00		
					_	31,984.62	=	

Attachment F-2

Post-treatment Analytical Results

ADS Glacier Ridge Landfill Post-Treatment Sampling November 2016

	Bio	pile Nun	nber #201	6	
Sample	Sample	Sample	PID	DRO	GRO
Location ID	Date	Time	(ppm)	(mg/kg)	(mg/kg)
BP 2016 - 1A	11/21/2016	1015	0	5.4J	<2.7
BP 2016 - 1B	11/21/2016	1020	1	10.6	<2.8
BP 2016 - 1C	11/21/2016	1025	5	5.7	<2.8
BP 2016 - 2A	11/21/2016	1030	3	156	6.4
BP 2016 - 2B	11/21/2016	1035	10	283	38.0
BP 2016 - 2C	11/21/2016	1040	5	114	<2.7
BP 2016 - 3A	11/21/2016	1045	4	65.9	<2.7
BP 2016 - 3B	11/21/2016	1050	112	498	131
BP 2016 - 3C	11/21/2016	1100	20	19.2	4.7J
BP 2016 - 4A	11/21/2016	1105	12	283	9.2
BP 2016 - 4B	11/21/2016	1110	75	87.8	28.0
BP 2016 - 4C	11/21/2016	1115	170	6,270	57.7
BP 2016 - 5A	11/21/2016	1120	15	49.0	<2.7
BP 2016 - 5B	11/21/2016	1125	32	74.7	3.7J
BP 2016 - 5C	11/21/2016	1130	200	244	111
BP 2016 - 6A	11/21/2016	1135	25	40.4	<2.7
BP 2016 - 6B	11/21/2016	1140	18	28.5	<2.7
BP 2016 - 6C	11/21/2016	1145	88	16.7	15.5
BP 2016 - 7A	11/21/2016	1150	7	13.7	<2.8
BP 2016 - 7B	11/21/2016	1155	35	106	15.8
BP 2016 - 7C	11/21/2016	1200	90	177	23.1
BP 2016 - 8A	11/21/2016	1210	42	12.6	<2.8
BP 2016 - 8B	11/21/2016	1215	95	82.0	14.2
BP 2016 - 8C	11/21/2016	1220	185	168	40.4
BP 2016 - 9A	11/21/2016	1225	0	51.3	<2.7
BP 2016 - 9B	11/21/2016	1230	60	143	22.4
BP 2016 - 9C	11/21/2016	1235	100	20.1	15.0
BP 2016 - 10A	11/21/2016	1240	20	3.2J	<2.7
BP 2016 - 10B	11/21/2016	1245	40	19.7	5.2J
BP 2016 - 10C	11/21/2016	1255	180	346	84.7
BP 2016 - 11A	11/21/2016	1300	28	36.9	<2.7
BP 2016 - 11B	11/21/2016	1305	56	19.6	4.9J
BP 2016 - 11C	11/21/2016	1310	45	15.6	<2.8



December 20, 2016

Frank Perugini Environmental Sampling Corporation W125 S9808 North Cape Road Muskego, WI 53150

RE: Project: 2016 BIOPILE

Pace Project No.: 40142436

Dear Frank Perugini:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Varga

cindy.varga@pacelabs.com

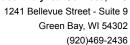
Condy K Vaya

Project Manager

Enclosures

cc: ESC Staff, Environmental Sampling Corporation







CERTIFICATIONS

Project: 2016 BIOPILE Pace Project No.: 40142436

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace

Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322 Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA#: 4150

Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563

Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 2016 BIOPILE Pace Project No.: 40142436

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40142436001	BP-2016 1A	Solid	11/21/16 10:15	11/22/16 07:40
40142436002	BP-2016 1B	Solid	11/21/16 10:20	11/22/16 07:40
40142436003	BP-2016 1C	Solid	11/21/16 10:25	11/22/16 07:40
40142436004	BP-2016 2A	Solid	11/21/16 10:30	11/22/16 07:40
40142436005	BP-2016 2B	Solid	11/21/16 10:35	11/22/16 07:40
40142436006	BP-2016 2C	Solid	11/21/16 10:40	11/22/16 07:40
40142436007	BP-2016 3A	Solid	11/21/16 10:45	11/22/16 07:40
40142436008	BP-2016 3B	Solid	11/21/16 10:50	11/22/16 07:40
40142436009	BP-2016 3C	Solid	11/21/16 11:00	11/22/16 07:40
40142436010	BP-2016 4A	Solid	11/21/16 11:05	11/22/16 07:40
40142436011	BP-2016 4B	Solid	11/21/16 11:10	11/22/16 07:40
40142436012	BP-2016 4C	Solid	11/21/16 11:15	11/22/16 07:40
40142436013	BP-2016 5A	Solid	11/21/16 11:20	11/22/16 07:40
40142436014	BP-2016 5B	Solid	11/21/16 11:25	11/22/16 07:40
40142436015	BP-2016 5C	Solid	11/21/16 11:30	11/22/16 07:40
40142436016	BP-2016 6A	Solid	11/21/16 11:35	11/22/16 07:40
40142436017	BP-2016 6B	Solid	11/21/16 11:40	11/22/16 07:40
40142436018	BP-2016 6C	Solid	11/21/16 11:45	11/22/16 07:40
40142436019	BP-2016 7A	Solid	11/21/16 11:50	11/22/16 07:40
40142436020	BP-2016 7B	Solid	11/21/16 11:55	11/22/16 07:40
40142436021	BP-2016 7C	Solid	11/21/16 12:00	11/22/16 07:40
40142436022	BP-2016 8A	Solid	11/21/16 12:10	11/22/16 07:40
40142436023	BP-2016 8B	Solid	11/21/16 12:15	11/22/16 07:40
40142436024	BP-2016 8C	Solid	11/21/16 12:20	11/22/16 07:40
40142436025	BP-2016 9A	Solid	11/21/16 12:25	11/22/16 07:40
40142436026	BP-2016 9B	Solid	11/21/16 12:30	11/22/16 07:40
40142436027	BP-2016 9C	Solid	11/21/16 12:35	11/22/16 07:40
40142436028	BP-2016 10A	Solid	11/21/16 12:40	11/22/16 07:40
40142436029	BP-2016 10B	Solid	11/21/16 12:45	11/22/16 07:40
40142436030	BP-2016 10C	Solid	11/21/16 12:55	11/22/16 07:40
40142436031	BP-2016 11A	Solid	11/21/16 13:00	11/22/16 07:40
40142436032	BP-2016 11B	Solid	11/21/16 13:05	11/22/16 07:40
40142436033	BP-2016 11C	Solid	11/21/16 13:10	11/22/16 07:40



SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40142436001	BP-2016 1A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436002	BP-2016 1B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436003	BP-2016 1C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436004	BP-2016 2A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436005	BP-2016 2B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436006	BP-2016 2C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436007	BP-2016 3A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436008	BP-2016 3B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436009	BP-2016 3C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436010	BP-2016 4A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436011	BP-2016 4B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436012	BP-2016 4C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436013	BP-2016 5A	WI MOD DRO	MT	2	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
10142436014	BP-2016 5B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436015	BP-2016 5C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436016	BP-2016 6A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436017		WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436018	BP-2016 6C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436019	BP-2016 7A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436020	BP-2016 7B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436021	BP-2016 7C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436022	BP-2016 8A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436023	BP-2016 8B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436024	BP-2016 8C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
0142436025	BP-2016 9A	WI MOD DRO	MT	2	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	KTS	1	PASI-G
40142436026	BP-2016 9B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436027	BP-2016 9C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436028	BP-2016 10A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436029	BP-2016 10B	WI MOD DRO	MT	2	PASI-M
	1142430029 BP-2010 10B	WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436030	BP-2016 10C	WI MOD DRO	MT	2	PASI-M
	7 BP-2016 9C 8 BP-2016 10A 9 BP-2016 10B 0 BP-2016 10C 1 BP-2016 11A	WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436031	BP-2016 11A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436032	BP-2016 11B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436033	BP-2016 11C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 1A Lab ID: 40142436001 Collected: 11/21/16 10:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pi	reparation N	/lethod:	: WI MOD DRO			
WDRO C10-C28	5.4J	mg/kg	6.3	1.9	1	11/28/16 13:39	12/01/16 11:10		
Surrogates n-Triacontane (S)	89	%.	50-150		1	11/28/16 13:39	12/01/16 11:10	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/23/16 22:49		
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 22:49	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	6.8	%	0.10	0.10	1		12/02/16 13:48		
Sample: BP-2016 1B	Lab ID:	4014243600	02 Collected	d: 11/21/16	3 10:20	Received: 11/	22/16 07:40 Ma	atrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	(
WIDDO 000	A I. 4'	I N 4 o 4 lo o ol · \ \ \ / \ /	MOD DDO 1		Mada ad. 1	MI MOD DDO			

WIDRO GCS	Analytical	Method: WI	MOD DRO Prep	aration M	lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	10.6	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 09:54		T6
n-Triacontane (S)	77	%.	50-150		1	11/28/16 13:39	12/01/16 09:54	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Prep	aration M	lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.8	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 23:15		
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 23:15	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	10.9	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 1C Lab ID: 40142436003 Collected: 11/21/16 10:25 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pre	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	5.7	mg/kg	5.4	1.6	1	11/28/16 13:39	12/01/16 10:01		
n-Triacontane (S)	72	%.	50-150		1	11/28/16 13:39	12/01/16 10:01	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pre	eparation N	Method	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.8	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 23:41		

REPORT OF LABORATORY ANALYSIS

Qual



Project: 2016 BIOPILE Pace Project No.: 40142436

Percent Moisture

Date: 12/20/2016 07:20 AM

Sample: BP-2016 1C	Lab ID:	40142436003	Collected	: 11/21/16	10:25	Received: 11/	22/16 07:40 Ma	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted for	percent mo	isture, sar	nple si	ze and any dilut	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI Mo	OD GRO Pr	eparation N	Method	: TPH GRO/PVO	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 23:41	98-08-8	
Percent Moisture	Analytical	Method: ASTM	1 D2974-87						
Percent Moisture	9.7	%	0.10	0.10	1		12/02/16 13:48		
Sample: BP-2016 2A	Lab ID:	40142436004	Collected	: 11/21/16	3 10:30	Received: 11/	/22/16 07:40 M	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted for	percent mo	isture, sar	nple si	ze and any dilut	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI Mo	OD DRO Pro	eparation N	Method	: WI MOD DRO			
WDRO C10-C28	156	mg/kg	29.1	8.7	5	11/28/16 13:39	12/01/16 12:41		T6
Surrogates n-Triacontane (S)	72	%.	50-150		5	11/28/16 13:39	12/01/16 12:41	638-68-6	
WIGRO GCV	Analytical	Method: WI Mo	OD GRO Pr	eparation N	Method	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	6.4	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 00:07		
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/24/16 00:07	98-08-8	
Percent Moisture	Analytical	Method: ASTM	1 D2974-87						
Percent Moisture	7.8	%	0.10	0.10	1		12/02/16 13:48		
Sample: BP-2016 2B	Lab ID:	40142436005	Collected	: 11/21/16	3 10:35	Received: 11/	/22/16 07:40 M	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted for	percent mo	isture, sar	nple si	ze and any dilut	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI Mo	OD DRO Pre	eparation N	/lethod	: WI MOD DRO		•	
WDRO C10-C28	283	mg/kg	34.2	10.3	5	11/28/16 13:39	12/01/16 12:34		T6
Surrogates n-Triacontane (S)	78	%.	50-150		5	11/28/16 13:39	12/01/16 12:34	638-68-6	
WIGRO GCV	Analytical	Method: WI Mo	OD GRO Pr	eparation N	Method	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	38.0	mg/kg	5.5	2.7	1	11/23/16 05:30	11/24/16 00:32		G+
Surrogates a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/24/16 00:32	98-08-8	
Percent Moisture	Analytical	Method: ASTM	1 D2974-87						

REPORT OF LABORATORY ANALYSIS

0.10 1

0.10

8.8

%

12/02/16 13:48



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 2C Lab ID: 40142436006 Collected: 11/21/16 10:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI N	10D DRO Pi	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	114	mg/kg	6.4	1.9	1	11/28/16 13:39	12/01/16 10:49		Т6
n-Triacontane (S)	73	%.	50-150		1	11/28/16 13:39	12/01/16 10:49	638-68-6	
WIGRO GCV	Analytical	Method: WI N	10D GRO P	reparation N	Method:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/29/16 10:11		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/29/16 10:11	98-08-8	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	7.4	%	0.10	0.10	1		12/02/16 13:48		
Sample: RP-2016 3A	I ah ID:	4014243600	7 Collected	· 11/21/16	10:45	Received: 11/	22/16 07·40 Ma	trix: Solid	

Sample: BP-2016 3A Lab ID: 40142436007 Collected: 11/21/16 10:45 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: W	I MOD DRO Pre	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	65.9	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 10:22		T6
n-Triacontane (S)	79	%.	50-150		1	11/28/16 13:39	12/01/16 10:22	638-68-6	
WIGRO GCV	Analytical	Method: W	I MOD GRO Pre	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 01:24		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 01:24	98-08-8	
Percent Moisture	Analytical	Method: AS	STM D2974-87						
Percent Moisture	8.2	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 3B Lab ID: 40142436008 Collected: 11/21/16 10:50 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	498	mg/kg	72.6	21.8	10	11/28/16 13:39	12/01/16 12:14		T6
n-Triacontane (S)	112	%.	50-150		10	11/28/16 13:39	12/01/16 12:14	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	reparation N	Method:	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	131	mg/kg	5.7	2.9	1	11/23/16 05:30	11/24/16 05:15		G+

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 3B	Lab ID: 40	0142436008	Collected	: 11/21/16	10:50	Received: 11/	22/16 07:40 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are a	djusted for	percent mo	isture, sar	nple si	ze and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Mo	ethod: WI MO	DD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	106	%	80-120		1	11/23/16 05:30	11/24/16 05:15	98-08-8	
Percent Moisture	Analytical Mo	ethod: ASTM	D2974-87						
Percent Moisture	12.9	%	0.10	0.10	1		12/02/16 13:49		
Sample: BP-2016 3C	Lab ID: 40	0142436009	Collected	: 11/21/16	11:00	Received: 11/	/22/16 07:40 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are a	djusted for	percent mo	isture, sar	nple si	ze and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Mo	ethod: WI MO	DD DRO Pre	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28	19.2	mg/kg	7.4	2.2	1	11/28/16 13:39	12/01/16 11:16		T6
Surrogates n-Triacontane (S)	79	%.	50-150		1	11/28/16 13:39	12/01/16 11:16	638-68-6	
WIGRO GCV	Analytical Mo	ethod: WI MO	DD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	4.7J	mg/kg	5.5	2.8	1	11/23/16 05:30	11/24/16 01:49		
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 01:49	98-08-8	
Percent Moisture	Analytical Mo	ethod: ASTM	D2974-87						
Percent Moisture	9.6	%	0.10	0.10	1		12/02/16 13:49		
Sample: BP-2016 4A	Lab ID: 40	0142436010	Collected	: 11/21/16	11:05	Received: 11/	/22/16 07:40 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are a	djusted for	percent mo	isture, sar	nple si	ze and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Mo	ethod: WI MO	DD DRO Pre	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28	283	mg/kg	35.5	10.7	5	11/28/16 13:39	12/01/16 12:48		T6
Surrogates n-Triacontane (S)	85	%.	50-150		5	11/28/16 13:39	12/01/16 12:48	638-68-6	
WIGRO GCV	Analytical Mo	ethod: WI MO	DD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	9.2	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 02:15		
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 02:15	98-08-8	
Percent Moisture	Analytical Mo	ethod: ASTM	D2974-87						
Percent Moisture	7.9	%	0.10	0.10	1		12/02/16 13:49		



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 4B Lab ID: 40142436011 Collected: 11/21/16 11:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI M	IOD DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	87.8	mg/kg	7.8	2.4	1	11/28/16 13:39	12/01/16 10:08		Т6
n-Triacontane (S)	80	%.	50-150		1	11/28/16 13:39	12/01/16 10:08	638-68-6	
WIGRO GCV	Analytical	Method: WI M	IOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	28.0	mg/kg	5.6	2.8	1	11/23/16 05:30	11/24/16 06:59		G+
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 06:59	98-08-8	
Percent Moisture	Analytical	Method: ASTN	M D2974-87						
Percent Moisture	10.9	%	0.10	0.10	1		12/02/16 13:49		
Sample: BP-2016 4C	Lab ID:	40142436012	2 Collected	d: 11/21/16	3 11:15	Received: 11/	22/16 07:40 Ma	atrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD .	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pro	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	6270	mg/kg	966	290	5	11/28/16 13:39	12/01/16 12:27		Т6
n-Triacontane (S)	103	%.	50-150		5	11/28/16 13:39	12/01/16 12:27	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	57.7	mg/kg	5.5	2.8	1	11/23/16 05:30	11/24/16 03:32		G+
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	11/23/16 05:30	11/24/16 03:32	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	9.9	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 5A Lab ID: 40142436013 Collected: 11/21/16 11:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pre	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	49.0	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 10:56		T6
n-Triacontane (S)	78	%.	50-150		1	11/28/16 13:39	12/01/16 10:56	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pro	eparation N	/lethod:	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 07:24		



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 5A Lab ID: 40142436013 Collected: 11/21/16 11:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	D GRO Pre	paration N	/lethod:	TPH GRO/PVO	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/24/16 07:24	98-08-8	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
Percent Moisture	7.9	%	0.10	0.10	1		12/02/16 16:17	7	
Sample: BP-2016 5B	Lab ID:	40142436014	Collected:	11/21/16	11:25	Received: 11/	22/16 07:40 N	Matrix: Solid	

Parameters	Results	Units	LOQ	LOD .	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28	74.7	mg/kg	8.4	2.5	1	11/28/16 13:39	12/01/16 09:48		Т6
Surrogates n-Triacontane (S)	81	%.	50-150		1	11/28/16 13:39	12/01/16 09:48	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	3.7J	mg/kg	6.4	3.2	1	11/23/16 05:30	11/24/16 07:50		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 07:50	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	21.7	%	0.10	0.10	1		12/02/16 16:18		

Sample: BP-2016 5C Lab ID: 40142436015 Collected: 11/21/16 11:30 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	1ethod	: WI MOD DRO			
WDRO C10-C28	244	mg/kg	36.2	10.9	5	11/28/16 13:39	12/01/16 12:21		T6
Surrogates n-Triacontane (S)	96	%.	50-150		5	11/28/16 13:39	12/01/16 12:21	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	111	mg/kg	5.6	2.8	1	11/23/16 05:30	11/24/16 04:24		G+
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/24/16 04:24	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	11.0	%	0.10	0.10	1		12/02/16 16:18		



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 6A Lab ID: 40142436016 Collected: 11/21/16 11:35 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO PI	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	40.4	mg/kg	6.2	1.8	1	11/28/16 13:19	12/02/16 10:08		Т6
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:08	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 08:16		
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 08:16	98-08-8	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	8.0	%	0.10	0.10	1		12/02/16 14:29		
Sample: BP-2016 6B	Lab ID:	4014243601	7 Collected	d: 11/21/16	11:40	Received: 11/	22/16 07:40 Ma	atrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pro	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	28.5	mg/kg	7.3	2.2	1	11/28/16 13:19	12/02/16 10:56		T6
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:56	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.7	mg/kg	5.3	2.7	1	11/23/16 05:30	11/24/16 08:42		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 08:42	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	6.2	%	0.10	0.10	1		12/02/16 16:18		

Sample: BP-2016 6C Lab ID: 40142436018 Collected: 11/21/16 11:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	16.7	mg/kg	7.7	2.3	1	11/28/16 13:19	12/02/16 11:44		T6
n-Triacontane (S)	91	%.	50-150		1	11/28/16 13:19	12/02/16 11:44	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	15.5	mg/kg	5.7	2.8	1	11/23/16 05:30	11/23/16 10:24		G+



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 6C Lab ID: 40142436018 Collected: 11/21/16 11:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO Pre	paration M	1ethod:	TPH GRO/PVOC	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 10:24	98-08-8	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
Percent Moisture	11.7	%	0.10	0.10	1		12/02/16 16:18		
Sample: BP-2016 7A	Lab ID:	40142436019	Collected:	11/21/16	11:50	Received: 11/2	22/16 07:40 Ma	atrix: Solid	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	13.7	mg/kg	6.4	1.9	1	11/28/16 13:19	12/02/16 10:01		T6
n-Triacontane (S)	84	%.	50-150		1	11/28/16 13:19	12/02/16 10:01	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO PI	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.8	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 10:50		
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	11/23/16 05:30	11/23/16 10:50	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	10.3	%	0.10	0.10	1		12/02/16 15:47		

Sample: BP-2016 7B Lab ID: 40142436020 Collected: 11/21/16 11:55 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation M	1ethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	106	mg/kg	7.4	2.2	1	11/28/16 13:19	12/02/16 10:42		T6,T7
n-Triacontane (S)	90	%.	50-150		1	11/28/16 13:19	12/02/16 10:42	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	1ethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	15.8	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 11:16		G+
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 11:16	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	10.4	%	0.10	0.10	1		12/02/16 15:47		



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 7C Lab ID: 40142436021 Collected: 11/21/16 12:00 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI N	MOD DRO Pr	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	177	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 10:28		T6,T7
n-Triacontane (S)	89	%.	50-150		1	11/28/16 13:19	12/02/16 10:28	638-68-6	
WIGRO GCV	Analytical	Method: WI N	MOD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	23.1	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 11:41		G+
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 11:41	98-08-8	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	9.7	%	0.10	0.10	1		12/02/16 15:47		
Sample: BP-2016 8A	Lab ID:	4014243602	2 Collected	d: 11/21/16	12:10	Received: 11/	22/16 07:40 Ma	atrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pre	paration N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	12.6	mg/kg	6.8	2.1	1	11/28/16 13:19	12/02/16 11:16		Т6
n-Triacontane (S)	81	%.	50-150		1	11/28/16 13:19	12/02/16 11:16	638-68-6	
WIGRO GCV	Analytical I	Method: WI	MOD GRO Pre	paration N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.8	mg/kg	5.6	2.8	1	11/23/16 05:30	11/29/16 09:45		
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/29/16 09:45	98-08-8	
Percent Moisture	Analytical I	Method: AS	TM D2974-87						
Percent Moisture	11.5	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 8B Lab ID: 40142436023 Collected: 11/21/16 12:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI N	IOD DRO Pr	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	82.0	mg/kg	7.7	2.3	1	11/28/16 13:19	12/02/16 09:47		T6,T7
n-Triacontane (S)	100	%.	50-150		1	11/28/16 13:19	12/02/16 09:47	638-68-6	
WIGRO GCV	Analytical	Method: WI N	IOD GRO Pr	eparation N	/lethod:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	14.2	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 12:33		G+



Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 8B	Lab ID: 4	0142436023	Collected	11/21/16	12:15	Received: 11/2	22/16 07:40 Ma	trix: Solid	
Results reported on a "dry wei	ght" basis and are a	djusted for p	oercent moi	sture, san	nple siz	e and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	ethod: WI MC	D GRO Pre	paration N	/lethod:	TPH GRO/PVOC	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/23/16 12:33	98-08-8	
Percent Moisture	Analytical M	ethod: ASTM	D2974-87						
Percent Moisture	10.1	%	0.10	0.10	1		12/02/16 15:48		
Sample: BP-2016 8C	Lab ID: 4	0142436024	Collected	: 11/21/16	12:20	Received: 11/2	22/16 07:40 Ma	trix: Solid	
Results reported on a "dry wei	ght" basis and are a	ndjusted for p	ercent moi	sture, san	nple siz	e and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical M	ethod: WI MC	DD DRO Pre	paration N	1ethod:	WI MOD DRO			
WDRO C10-C28	168	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 10:22		T6,T7
Surrogates n-Triacontane (S)	92	%.	50-150		1	11/28/16 13:19	12/02/16 10:22	638-68-6	
WIGRO GCV	Analytical M	ethod: WI MC	D GRO Pre	eparation N	/lethod:	TPH GRO/PVOC	CWI ext.		
Gasoline Range Organics Surrogates	40.4	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 12:58		G+
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/23/16 12:58	98-08-8	
Percent Moisture	Analytical M	ethod: ASTM	D2974-87						
Percent Moisture	11.1	%	0.10	0.10	1		12/02/16 15:48		
Sample: BP-2016 9A	Lab ID: 4	0142436025	Collected	: 11/21/16	12:25	Received: 11/2	22/16 07:40 Ma	trix: Solid	
Sample: BP-2016 9A Results reported on a "dry wei								trix: Solid	
•								trix: Solid CAS No.	Qual
Results reported on a "dry wei	ght" basis and are a	Units	LOQ	LOD	n ple siz DF	ze and any diluti	ons.		Qual
Parameters WIDRO GCS WDRO C10-C28	ght" basis and are a	Units	LOQ	LOD	DF Method:	re and any diluti Prepared	Analyzed		Qual T6
Parameters WIDRO GCS	Results Analytical M	Unitsethod: WI MC	LOQ DD DRO Pre	LOD -	DF dethod:	Prepared WI MOD DRO 11/28/16 13:19	Analyzed	CAS No.	
Parameters WIDRO GCS WDRO C10-C28 Surrogates	Results Analytical M 51.3	Units ethod: WI MC mg/kg %.	LOQ DD DRO Pre 6.1 50-150	LOD	DF Method: 1	Prepared WI MOD DRO 11/28/16 13:19	Analyzed 12/02/16 11:23 12/02/16 11:23	CAS No.	
Parameters Parameters WIDRO GCS WDRO C10-C28 Surrogates n-Triacontane (S) WIGRO GCV Gasoline Range Organics	Results Analytical M 51.3	Units ethod: WI MC mg/kg %.	LOQ DD DRO Pre 6.1 50-150	LOD	DF Method: 1	Prepared WI MOD DRO 11/28/16 13:19 11/28/16 13:19 TPH GRO/PVOC	Analyzed 12/02/16 11:23 12/02/16 11:23	CAS No.	
Parameters WIDRO GCS WDRO C10-C28 Surrogates n-Triacontane (S) WIGRO GCV	Results Analytical M 51.3 96 Analytical M	Units ethod: WI MC mg/kg %. ethod: WI MC	DD DRO Pre 6.1 50-150 DD GRO Pre	LOD	DF Method: 1 Method:	Prepared WI MOD DRO 11/28/16 13:19 11/28/16 13:19 TPH GRO/PVOC 11/23/16 05:30	Analyzed 12/02/16 11:23 12/02/16 11:23 C WI ext.	CAS No.	
Parameters Parameters WIDRO GCS WDRO C10-C28 Surrogates n-Triacontane (S) WIGRO GCV Gasoline Range Organics Surrogates	Results Analytical M 51.3 96 Analytical M <2.7 100	Units ethod: WI MC mg/kg %. ethod: WI MC mg/kg	DD DRO Pre 6.1 50-150 DD GRO Pre 5.3 80-120	LOD	DF Method: 1 Method: 1	Prepared WI MOD DRO 11/28/16 13:19 11/28/16 13:19 TPH GRO/PVOC 11/23/16 05:30	Analyzed 12/02/16 11:23 12/02/16 11:23 WI ext. 11/23/16 13:24	CAS No.	



ANALYTICAL RESULTS

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 9B Lab ID: 40142436026 Collected: 11/21/16 12:30 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI M	10D DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	143	mg/kg	7.1	2.1	1	11/28/16 13:19	12/02/16 10:35		T6,T7
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:35	638-68-6	
WIGRO GCV	Analytical	Method: WI M	10D GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	22.4	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 13:50		G+
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	11/23/16 05:30	11/23/16 13:50	98-08-8	
Percent Moisture	Analytical	Method: ASTI	M D2974-87						
Percent Moisture	9.1	%	0.10	0.10	1		12/02/16 15:48		
Sample: BP-2016 9C	Lab ID:	40142436027	7 Collected	d: 11/21/16	12:35	Received: 11/	22/16 07:40 Ma	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted fo	r percent mo	isture, sar	nple si	ze and any diluti	ions.		

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	20.1	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 11:37		T6
n-Triacontane (S)	96	%.	50-150		1	11/28/16 13:19	12/02/16 11:37	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	15.0	mg/kg	5.7	2.8	1	11/23/16 05:30	11/23/16 14:16		G+
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/23/16 14:16	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	12.2	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 10A Lab ID: 40142436028 Collected: 11/21/16 12:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod:	WI MOD DRO			
WDRO C10-C28 Surrogates	3.2J	mg/kg	6.8	2.0	1	11/28/16 13:19	12/02/16 11:10		
n-Triacontane (S)	109	%.	50-150		1	11/28/16 13:19	12/02/16 11:10	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	Method:	TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.7	mg/kg	5.5	2.7	1	11/23/16 05:30	11/23/16 16:24		

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 10A Lab ID: 40142436028 Collected: 11/21/16 12:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry we	eight" basis and ar	e adjusted for _l	percent moi	sture, san	nple siz	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO Pre	eparation N	1ethod:	TPH GRO/PVOC	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/23/16 16:24	98-08-8	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
Percent Moisture	8.4	%	0.10	0.10	1		12/02/16 15:48		
Sample: BP-2016 10B	Lab ID:	40142436029	Collected:	11/21/16	12:45	Received: 11/2	22/16 07:40 M	atrix: Solid	
Results reported on a "dry we	eight" basis and ar	e adjusted for	percent moi	sture, san	nple siz	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI MC	DD DRO Pre	paration M	1ethod:	WI MOD DRO			

Parameters	— Results	Units			DF	- Prepareu	Analyzeu	CAS NO.	- Quai
WIDRO GCS	Analytical	Method: WI	MOD DRO Pre	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	19.7	mg/kg	7.5	2.3	1	11/28/16 13:19	12/02/16 11:03		T6
n-Triacontane (S)	105	%.	50-150		1	11/28/16 13:19	12/02/16 11:03	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pro	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	5.2J	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 16:50		
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 16:50	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	10.5	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 10C Lab ID: 40142436030 Collected: 11/21/16 12:55 Received: 11/22/16 07:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28	346	mg/kg	41.7	12.5	5	11/28/16 13:19	12/02/16 12:11		Т6
Surrogates n-Triacontane (S)	104	%.	50-150		5	11/28/16 13:19	12/02/16 12:11	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	84.7	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 15:33		G+
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/23/16 15:33	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	9.3	%	0.10	0.10	1		12/02/16 15:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



a,a,a-Trifluorotoluene (S)

Date: 12/20/2016 07:20 AM

ANALYTICAL RESULTS

Project: 2016 BIOPILE Pace Project No.: 40142436

Sample: BP-2016 11A Lab ID: 40142436031 Collected: 11/21/16 13:00 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pr	reparation N	/lethod:	: WI MOD DRO			
WDRO C10-C28 Surrogates	36.9	mg/kg	7.1	2.1	1	11/28/16 13:19	12/02/16 10:49		Т6
n-Triacontane (S)	91	%.	50-150		1	11/28/16 13:19	12/02/16 10:49	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO PI	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics Surrogates	<2.7	mg/kg	5.4	2.7	1	11/23/16 05:30	11/23/16 17:15		
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 17:15	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	7.2	%	0.10	0.10	1		12/02/16 15:48		
Sample: BP-2016 11B	Lab ID:	4014243603	32 Collected	d: 11/21/16	3 13:05	Received: 11/	22/16 07:40 Ma	atrix: Solid	

LOD Results Units LOQ DF CAS No. **Parameters** Prepared Analyzed Qual **WIDRO GCS** Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO WDRO C10-C28 19.6 mg/kg 7.5 2.3 11/28/16 13:19 12/02/16 11:30 T6 Surrogates 107 %. 50-150 11/28/16 13:19 12/02/16 11:30 638-68-6 n-Triacontane (S) **WIGRO GCV** Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Gasoline Range Organics 4.9J mg/kg 5.6 2.8 11/23/16 05:30 11/23/16 17:41 Surrogates

Percent Moisture Analytical Method: ASTM D2974-87

103

Percent Moisture 10.3 % 0.10 0.10 1 12/02/16 15:48

Sample: BP-2016 11C Lab ID: 40142436033 Collected: 11/21/16 13:10 Received: 11/22/16 07:40 Matrix: Solid

80-120

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

%

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pro	eparation N	/lethod	: WI MOD DRO			
WDRO C10-C28 Surrogates	15.6	mg/kg	6.3	1.9	1	11/28/16 13:19	12/02/16 09:54		Т6
n-Triacontane (S)	97	%.	50-150		1	11/28/16 13:19	12/02/16 09:54	638-68-6	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Gasoline Range Organics	<2.8	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 18:07		

REPORT OF LABORATORY ANALYSIS

11/23/16 05:30 11/23/16 17:41 98-08-8



ANALYTICAL RESULTS

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Sample: BP-2016 11C Lab ID: 40142436033 Collected: 11/21/16 13:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation I	Method	: TPH GRO/PVO	C WI ext.		
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 18:07	98-08-8	
Percent Moisture	Analytical	Method: AS	STM D2974-87						
Percent Moisture	10.3	%	0.10	0.10	1		12/02/16 15:48		



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

QC Batch: 242308 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007,

40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014,

40142436015, 40142436016, 40142436017

METHOD BLANK: 1436266 Matrix: Solid

Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007,

40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014, 401442436014, 401442436014, 401442436014, 40142436014, 401442436014, 401442436014, 401442436014, 40144446014, 40144446014, 40144446014, 40144446014, 40144446014, 40144446014, 40144446014, 40144446014, 40144446014, 4014446014, 4014446014, 4014446014, 401446014, 401446014, 401446014, 401446014, 40146014, 40146014, 40146014, 40146014, 40146014, 40146014, 40146014, 401

40142436015, 40142436016, 40142436017

Blank Reporting Parameter Units Result Limit Qualifiers Analyzed Gasoline Range Organics <1.6 5.0 11/23/16 21:07 mg/kg a,a,a-Trifluorotoluene (S) % 102 80-120 11/23/16 21:07

LABORATORY CONTROL SAMPLE &	LCSD: 1436267		14	136268						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	10.3	10.0	103	100	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

QC Batch: 242309 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024,

40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031,

40142436032, 40142436033

METHOD BLANK: 1436269 Matrix: Solid

Associated Lab Samples: 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024,

40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031,

40142436032, 40142436033

Blank Reporting Parameter Units Result Limit Qualifiers Analyzed Gasoline Range Organics <1.6 5.0 11/23/16 08:42 mg/kg a,a,a-Trifluorotoluene (S) % 101 80-120 11/23/16 08:42

LABORATORY CONTROL SAMPLE &	LCSD: 1436270		14	136271						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Gasoline Range Organics a,a,a-Trifluorotoluene (S)	mg/kg %	10	10.3	9.9	103 102	99	80-120 80-120	5	20	



Date: 12/20/2016 07:20 AM

QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

QC Batch: 448968 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007,

40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014,

40142436015

METHOD BLANK: 2458213 Matrix: Solid

Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007,

40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014,

40142436015

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	<2.3	7.7	12/01/16 09:20	
n-Triacontane (S)	%.	76	50-150	12/01/16 09:20	

LABORATORY CONTROL SAMPLE &	LCSD: 2458214		24	158215						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
WDRO C10-C28 n-Triacontane (S)	mg/kg %.	80	69.1	76.2	86 76	95 86	70-120 50-150	10	20	



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

QC Batch: 448969 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 40142436016, 40142436017, 40142436018, 40142436019, 40142436020, 40142436021, 40142436022,

40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029,

40142436030, 40142436031, 40142436032, 40142436033

METHOD BLANK: 2458217 Matrix: Solid

Associated Lab Samples: 40142436016, 40142436017, 40142436018, 40142436019, 40142436020, 40142436021, 40142436022,

 $40142436030,\, 40142436031,\, 40142436032,\, 40142436033$

Blank Reporting Parameter Units Result Limit Qualifiers Analyzed WDRO C10-C28 <2.3 12/02/16 09:20 mg/kg 50-150 12/02/16 09:20 n-Triacontane (S) %. 87

LABORATORY CONTROL SAMPLE &	LCSD: 2458218		24	158219						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
WDRO C10-C28	mg/kg	80	70.6	70.1	88	88	70-120	1	20	
n-Triacontane (S)	%.				89	90	50-150			



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

QC Batch: 243138 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007,

40142436008, 40142436009, 40142436010, 40142436011, 40142436012

SAMPLE DUPLICATE: 1440279

Date: 12/20/2016 07:20 AM

40142855002 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 6.6 % Percent Moisture 6.2 7 10



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

QC Batch: 243143 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40142436016

SAMPLE DUPLICATE: 1440369

40142436016 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers 8.0 % Percent Moisture 8.4 5 10



Green Bay, WI 54302 (920)469-2436

QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

QC Batch: 243151 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032,

40142436033

SAMPLE DUPLICATE: 1440387

Date: 12/20/2016 07:20 AM

40142436029 Dup Max

ParameterUnitsResultResultRPDRPDQualifiersPercent Moisture%10.59.8810



QUALITY CONTROL DATA

Project: 2016 BIOPILE Pace Project No.: 40142436

QC Batch: 243152 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40142436013, 40142436014, 40142436015, 40142436017, 40142436018

SAMPLE DUPLICATE: 1440466

Date: 12/20/2016 07:20 AM

Percent Moisture 40142436013 Dup Max Result RPD Qualifiers

7.9 8.0 1 10



QUALIFIERS

Project: 2016 BIOPILE Pace Project No.: 40142436

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay
PASI-M Pace Analytical Services - Minneapolis

WORKORDER QUALIFIERS

WO: 40142436

[1] Revised report is report only GRO results.

ANALYTE QUALIFIERS

Date: 12/20/2016 07:20 AM

G+ Late peaks present outside the GRO window.

T6 High boiling point hydrocarbons are present in the sample.

T7 Low boiling point hydrocarbons are present in the sample.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10142436001	BP-2016 1A	WI MOD DRO	448968	WI MOD DRO	449622
0142436002	BP-2016 1B	WI MOD DRO	448968	WI MOD DRO	449622
0142436003	BP-2016 1C	WI MOD DRO	448968	WI MOD DRO	449622
0142436004	BP-2016 2A	WI MOD DRO	448968	WI MOD DRO	449622
0142436005	BP-2016 2B	WI MOD DRO	448968	WI MOD DRO	449622
0142436006	BP-2016 2C	WI MOD DRO	448968	WI MOD DRO	449622
0142436007	BP-2016 3A	WI MOD DRO	448968	WI MOD DRO	449622
0142436008	BP-2016 3B	WI MOD DRO	448968	WI MOD DRO	449622
0142436009	BP-2016 3C	WI MOD DRO	448968	WI MOD DRO	449622
0142436010	BP-2016 4A	WI MOD DRO	448968	WI MOD DRO	449622
0142436011	BP-2016 4B	WI MOD DRO	448968	WI MOD DRO	449622
0142436012	BP-2016 4C	WI MOD DRO	448968	WI MOD DRO	449622
0142436013	BP-2016 5A	WI MOD DRO	448968	WI MOD DRO	449622
0142436014	BP-2016 5B	WI MOD DRO	448968	WI MOD DRO	449622
0142436015	BP-2016 5C	WI MOD DRO	448968	WI MOD DRO	449622
0142436016	BP-2016 6A	WI MOD DRO	448969	WI MOD DRO	449916
0142436017	BP-2016 6B	WI MOD DRO	448969	WI MOD DRO	449916
0142436018	BP-2016 6C	WI MOD DRO	448969	WI MOD DRO	449916
0142436019	BP-2016 7A	WI MOD DRO	448969	WI MOD DRO	449916
0142436020	BP-2016 7B	WI MOD DRO	448969	WI MOD DRO	449916
0142436021	BP-2016 7C	WI MOD DRO	448969	WI MOD DRO	449916
0142436022	BP-2016 8A	WI MOD DRO	448969	WI MOD DRO	449916
0142436023	BP-2016 8B	WI MOD DRO	448969	WI MOD DRO	449916
0142436024	BP-2016 8C	WI MOD DRO	448969	WI MOD DRO	449916
0142436025	BP-2016 9A	WI MOD DRO	448969	WI MOD DRO	449916
0142436026	BP-2016 9B	WI MOD DRO	448969	WI MOD DRO	449916
0142436027	BP-2016 9C	WI MOD DRO	448969	WI MOD DRO	449916
0142436028	BP-2016 10A	WI MOD DRO	448969	WI MOD DRO	449916
0142436029	BP-2016 10B	WI MOD DRO	448969	WI MOD DRO	449916
0142436030	BP-2016 10C	WI MOD DRO	448969	WI MOD DRO	449916
0142436031	BP-2016 11A	WI MOD DRO	448969	WI MOD DRO	449916
0142436032	BP-2016 11B	WI MOD DRO	448969	WI MOD DRO	449916
0142436033	BP-2016 11C	WI MOD DRO	448969	WI MOD DRO	449916
0142436001	BP-2016 1A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436002	BP-2016 1B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436003	BP-2016 1C	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436004	BP-2016 2A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436005	BP-2016 2B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436006	BP-2016 2C	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436007	BP-2016 3A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
142436008	BP-2016 3B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436009	BP-2016 3C	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436010	BP-2016 4A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436011	BP-2016 4B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436012	BP-2016 4C	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436013	BP-2016 5A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436014	BP-2016 5B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436015	BP-2016 5C	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10142436016	BP-2016 6A	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436017	BP-2016 6B	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
0142436018	BP-2016 6C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
10142436019	BP-2016 7A	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436020	BP-2016 7B	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436021	BP-2016 7C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436022	BP-2016 8A	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436023	BP-2016 8B	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436024	BP-2016 8C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436025	BP-2016 9A	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436026	BP-2016 9B	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436027	BP-2016 9C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436028	BP-2016 10A	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436029	BP-2016 10B	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436030	BP-2016 10C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436031	BP-2016 11A	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436031	BP-2016 11B	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436033	BP-2016 11C	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
0142436001	BP-2016 1A	ASTM D2974-87	243138		
0142436002	BP-2016 1B	ASTM D2974-87	243138		
0142436003	BP-2016 1C	ASTM D2974-87	243138		
0142436004	BP-2016 2A	ASTM D2974-87	243138		
0142436005	BP-2016 2B	ASTM D2974-87	243138		
0142436006	BP-2016 2C	ASTM D2974-87	243138		
0142436007	BP-2016 3A	ASTM D2974-87	243138		
0142436008	BP-2016 3B	ASTM D2974-87	243138		
0142436009	BP-2016 3C	ASTM D2974-87	243138		
0142436010	BP-2016 4A	ASTM D2974-87	243138		
0142436011	BP-2016 4B	ASTM D2974-87	243138		
0142436012	BP-2016 4C	ASTM D2974-87	243138		
0142436013	BP-2016 5A	ASTM D2974-87	243152		
0142436014	BP-2016 5B	ASTM D2974-87	243152		
0142436015	BP-2016 5C	ASTM D2974-87	243152		
0142436016	BP-2016 6A	ASTM D2974-87	243143		
0142436017	BP-2016 6B	ASTM D2974-87	243152		
0142436017	BP-2016 6C	ASTM D2974-87 ASTM D2974-87	243152		
0142436019	BP-2016 7A	ASTM D2974-87	243151		
			243151		
0142436020	BP-2016 7B	ASTM D2974-87			
0142436021	BP-2016 7C	ASTM D2974-87	243151		
0142436022	BP-2016 8A	ASTM D2974-87	243151		
0142436023	BP-2016 8B	ASTM D2974-87	243151		
0142436024	BP-2016 8C	ASTM D2974-87	243151		
0142436025	BP-2016 9A	ASTM D2974-87	243151		
0142436026	BP-2016 9B	ASTM D2974-87	243151		
0142436027	BP-2016 9C	ASTM D2974-87	243151		
10142436028	BP-2016 10A	ASTM D2974-87	243151		

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE Pace Project No.: 40142436

Date: 12/20/2016 07:20 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142436029	BP-2016 10B	ASTM D2974-87	243151		
40142436030	BP-2016 10C	ASTM D2974-87	243151		
40142436031	BP-2016 11A	ASTM D2974-87	243151		
40142436032	BP-2016 11B	ASTM D2974-87	243151		
40142436033	BP-2016 11C	ASTM D2974-87	243151		

ORIGINAL

Intact / Not Intact Version 6.0 06/14/06	Version							special pricing and release of liability	special pricing	
Present Aug Present		Date/Time:	Received By:	Date/Time:		Relinquished By:	Relinc	Samples on HOLD are subject to	Samples on t	
Cooler Custody Seal						,				Fax:
OK / Adjusted		Date/Time:	Received By:	Date/Time:		Relinquished By:	Relinc		ione:	Telephone:
Sample Receipt pH	T	Coop inte	received by			Training Ly.			2	Emall #2
Receipt Temp = 707°C		MA 11-02/6	Bound By	Date/Time:	NAT!	Relinquished By:		ransmit Prelim Rush Results by (complete what you want):	MA:	Email #1:
シニインリー	040	Date/Time:	Received By:	<i>⊃</i> ₁		A B	Reliadush	Date Needed:	Date N	Ī
Unil 1121 x		Date/Time:	Received By:	116 17g				(Rush TAT subject to approval/surcharge)	(Rush TAT subje	
								Time Descripted Deli	Ouch Turnaround	п
+	4	4		1	9	9 611	//ki///	N/2 4/6	17 84201	
				7	7	1100		9		P
				7	9	1105		/ YA		C
				7	7	1/00		123	79	Z
				7	0	1050		3B	28	
				7	7	10/8		34	7,0	5
				2	7	loro		20	<i>K</i>	P
				7	h	1025		D D	25	2
				2	2	1050		JA A	100	0
				2	7	1025		10	B	Ç,
	/			7	7	L.		18	S.	
4 2-40ml	1-40201	1-4 msca 4		7	7	1015 5	11/2/11/0	38-3016 14	2/ BR-2	2
	(Lab Use Only)	COMMENTS		6	J	TE TIME MATRIX	DATE	CLIENT FIELD ID	PACE LAB # C	PACE
MENTS Profile #	LAB COMMENTS	CLIENT		€# 	Anal	WW = Waste Water WP = Wipe	:[your sample	EFA Level IV	
		Invoice To Phone:		70	ysss RO	DW = Drinking Water GW = Ground Water SW = Surface Water	B = Biota C = Charcoal O = Oil	(billable)	EPA Level III	*****
)	Req	Matrix Codes w = Water	100	MS/MSD	Data Package Options (billable)	Data
		Invoice To Address:			veste		Regulatory Program:			PO #:
2	M	Invoice To Company:			d			THE REAL PROPERTY.	Sampled By (Sign):	Samp
		Invoice To Contact:		70		PRESERVATION (CODE)*	D	Not Frimme	Sampled By (Print):	Samp
LENGT -	Mrs			2	N/ WIA	FILTERED? (YES/NO)		WZ	Project State:	Proje
@1801/C	J.	Mail To Address:		l=Sodium Thiosulfate J=Other	ate Solution	H≃Sodium Bisulfate Solution		Booile	Project Name:	Proje
N. A.) 	Mail To Company:	nol G≔NaOH	Đ.	ŠQ4	A=None B=HCL		2016	Project Number:	Proje
Freimone	Lothe,	Mail To Contact:	9	OF CUSTOD	CHAIN	<u> </u>	280	SLEW MIN	ē:	Phone:
		Quote #:	Z	THE PROPERTY CAN	WWW.		R	Sest Frima	Project Contact:	Proje
40142436 33	10h			3.00	ace Analytical				Branch/Location:	Bran
\ \	_	MN: 612-607-1700 WI: 920-469-2436	MN: 612-607-1700 WI: 9:	ı	V			A Codiny	Company Name:	Comp
Page 1	_)			(Plassa Print Classiv)	(Dlas	

Version 6.0 06/14/06

Fax:	Telephone:	Email #2:	Email #1:	Transmit Pr		Rush T		1024	023	(Na)	100	020	019	810	0/7	0/6	0/5	0/4	0/3	PACE LAB			Data Pack	PO#:	Sampled By	Sampled By	Project Sta	Project Nan	Project Nur	Phone:	Project Cor	Branch/Loc	
				elim Rush Results by (comp	Date Needed:	urnaround Time Requi		8-9/10C/201	\$	8	7	Vi		6					910C-963.						/(Sign):	(Print):			\ \ \	Migh	5 #85	ation:	
	Rei			lete what you want):	Ba			C 1/16/1	3	A	6	B	4	(3)	18	3.A.	5C 1	S C C C C C C C C C C C C C C C C C C C	//	D.				Regulator Program		+ Freenuk	7	10/6 10/6	016	120 2025	TOIMONE		\
	inquished By:		inquished By:	X TEXTOR	Inquished By:	Inquished By		5 022	-	170	1002	11/25	1/8	1145	1140	1/35	1130	1125	141120 5	TIME MATRIX	SW = Surface Water WW = Waste Water WP = Wipe	W = Water DW = Drinking Water GW = Ground Water	atrix Codes			ž	FILTERED? (YES/NO)	H=Sodium Bisulfate	A=None B=HCL				
	Date/Time:		Date/Time:	11-22-16	Date/Time:	Date/Tigne:		772	77	27	27	77	77	22	22	22	22	22	22	4	DI 6	9C AC) 2	estoc		A A	N N W		C=H2SO4		WWW.pacasabs.com	Ce Analysical	ALLE ALLE
	Received By:		Réceived By:	0740 Jaka	Received By:	Received By:																	-					J=Other	F=Methanol	USTODY			
	Dal			1 0 CM	1 / Kock	フ Da		\$											1-4020	COMME		Invoice To PI		invoice To Ad	Invoice To Co	Invoice To Co	оператири по при	Mail To Add	Mail To Com	Mail To Con	Quote		
navez de marco	te/Time:			0170				4											140201		_	hone:		ldress:	mpany:	ontact:	Mus	ress:	pany:	ntact: Scott	*:		
Cooler Custody Seal	OK / Adjusted	Sample Receipt pH	alpt Temp = /C / °C	100	プログラク	PACE Project No.		4											4, 2-40m		\dashv				J.		ben wi	3. BOD 12	18.	From Mark			
	Coo	phone: Retinquished By: Date/Time: Received By: Date/Time:	II#2: Relinquished By: Date/Time: Received By: Date/Time:	II #1: Reinquished By: Date/Time: Receipt Temp = CO / II #2: Date/Time: Page of the property of	Transmit Prelim Rush Results by (complete what you want):	Date Needed: Date Needed: Remiquisher B. Date/Time: Date/Time	Rush I umaround I ime Requested - Prelims (Rush rat subject to approval/surcharge) Date Date	Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Date Time: Date Time:	Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Date Needed: Date Needed: Remiquished By: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/	Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Parismit Prelim Rush Results by (complete what you want): Reimquished By: Reimquished By: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/	Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Date Needed: Date Needed: Relinquished By: Date Time: Relinquished By: Date Time: Date Time: Relinquished By: Date Time: Relinquished By: Date Time: Relinquished By: Date Time: Date Ti	Complete what you want): Relinquished By: Date/Time: Date/Time	20 76 1/56 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18	198 198	1900 1900	198 198	1	125 127 128	13 12 12 12 12 12 12 12	CELIAS # CLIENT FIELD ID COMMENTS (Lab US)	EPA Level IV	Charles Char	BPCALEWRIT Commonwell Market Codes Market C	Bab Programs Pro	Program Regulatory Regula	Process	Prince Prin	Spiert Name: Company Princip Princip	Splect Number: Debt Debt	CHAIN OF CUSTODY Mail To Contest: Chair Research Mail To Company: Mail To Compan	Seet Contact: CHAIN OF CUSTODY Mail To Contact: Chair Family Mail To Contact: Mail To	Sectionable: CHAIN OF CUSTODY Mail to Company: Mail to Company:

Company Name:

(Please Print Clearly)

MN: 612-607-1700 WI: 920-469-2436

UPPER MIDWEST REGION

Hack	intact / Not intact							special pricing and release of liability	special pricing a	
resear	Present Not Present	Date/Time:	Received By:	Date/Time:		Relinquished By:	Relinc	Samples on HOLD are subject to	Samples on H	
<u> Seal</u>	Cooler Custody Seal							-		Fax:
ă	OK / Adjusted	Date/Time:	Received By:	Date/Time:		Relinquished By:	Relinc			Telephone:
- 1		Date/Time:	Received By:	Date/Time:		Relinquished By:	Relinc			Email #2:
ا د	Receipt Temp =	N	ONDER	11-52460140	(March)	MAN .	7	Transmit Prelim Rush Results by (complete what you want):	Prelim Rush Re	Transmit
とった	711117	升/// Date/Time:	Recognized By:	Date/Time:	Marc	Rejunquished By:		eeded:	Date Needed:	
, , , ,	PACE Project No.	Date/Time:	Received By:	Date Firme:		Relinquished By:		Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)	Turnaround sh TAT subje	Rush (Rus
								A CANADA PARA MANANA		
									,	
1	4	4		6	j	500	11/2/11/6	76-11C	STED G	03
					20	A 50E.	2	1/1/10	7	032
					77	13co		11/4		B
					7	1282		100		031
					20	SIE		108		S
					22	1240		104		2
				//	7	527		90	7	Q,
	17				10/2	1230		43	"	0%
Busy	1-40004 24	1-402691			127	5 5221	11/12/11	36-3016 GA	989	026
		COMMENTS				COLLECTION NATRIX	DATE	CLIENT FIELD ID		PACE LAB #
Profile #	LAB COMMENTS	CLENT		6	Lnain	WW = Waste Water WP = Wipe	S = Soil SI = Sludge	your sample	EPA Level IV	
		Invoice To Phone:		P).	pees 1	DW = Drinking Water GW = Ground Water SW = Surface Water	B = Biota C = Charcoal		EPA Level III	
				<i>D</i>)	Matrix Codes	Mat	MS/MSD	Data Package Options	Data Pa
		Invoice To Address:			esto		Regulatory Program:			PO #:
	Bu	Invoice To Company:			j			WHI THE	By (Sign):	Sampled By (Sign):
	9	Invoice To Contact:			調みか	PRESERVATION (CODE)*	raile_	Not From	By (Print):	Sampled By (Print):
	Muskgove			7	1 W WIA	FILTERED? (YES/NO)			ate:	Project State:
	fo Box/2	Mail To Address:		l=Sodium Thiosulfate J=Other		H=Sodium Bisulfate Solution		R00%	ıme:	Project Name:
	W.	Mail To Company:	inol G=NaOH	*Preservation Codes D=HNO3 E=DI Water F=Methanol	B=HCL C=H2SO4 D=)	A≃None B≖		2016	ımber:	Project Number:
7	Scott Freiment	Mail To Contact:		OF CUSTOD	CHAIN OF		33	114-427-503	6	Phone:
Pa		Quote #:		READ CANTI	m mm. parcasass. Com			Scot Freimone		Project Contact:
je 3					Tace Analytical				ocation:	Branch/Location:
5 (`			2. 10						

Company Name:

(Please Print Clearly)

UPPER MIDWEST REGION MN: 612-607-1700 WI: 920-469-2436

Sample Condition Upon Receipt

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI, 54302

/ Pace Analytical						een Bay, WI 54
Client Name:			Project #:	WO#	401424	136
Courier: Fed Ex F UPS F Client F	Pace Other:	Du	dam	1 21 mm a 11 1 1 1 1 1		
Tracking #: 1255643				40142436		
Custody Seal on Cooler/Box Present: Tye	s no Sea	als intac	ct: 「yes 「no			
Custody Seal on Samples Present: Tyes		als intac	ct: 「yes - no			
Packing Material: Bubble Wrap B	ubble Bags	L No	ne 「Other _			
Cooler Temperature Uncorr: (Corr			t) Blue Dry None	Samples o	n ice, cooling process	has begun
Temp Blank Present: yes no		— Bioi	ogical Tissue is Fro			
Temp should be above freezing to 6°C for all sample	Avcent Bioto			┌ no	Person examini	ng contents:
Frozen Biota Samples should be received ≤ 0°C.	ехсері Біоіа.		Comments:		Initials:	Sick
Chain of Custody Present:	ØYes □No	o □N//	A 1.			
Chain of Custody Filled Out:	ZÎYes □No					
Chain of Custody Relinquished:	Z Yes □No	***************************************				
Sampler Name & Signature on COC:	DAYes □No					
Samples Arrived within Hold Time:	DYes □No					
- VOA Samples frozen upon receipt	Yes □No		Date/Time:			
Short Hold Time Analysis (<72hr):	□Yes ☑No					
Rush Turn Around Time Requested:	□Yes 口No					
Sufficient Volume:	✓ Yes □No					
Correct Containers Used:			T			
-Pace Containers Used:	ØYes □No					
-Pace IR Containers Used:	ØYes □No	-				
Containers Intact:	☐Yes ☐No					
	D¥es □No					
Filtered volume received for Dissolved tests	□Yes □No	7	0.073	<u> </u>		
Sample Labels match COC:	□Yes ZNo	□n/a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-40 NOVF	No TO,	ollect
-Includes date/time/ID/Analysis Matrix:	<u> </u>		date allini	ration	acea by	Drocess 11-52-11
Il containers needing preservation have been checked Non-Compliance noted in 13.)	d. □Yes □No	ØN/A	T HNO3	Г H2SO4 Г	NaOH F NaO	H +ZnAct 8
If containers needing preservation are found to be in ompliance with EPA recommendation.			10.			
HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □No	5/N/A				
ceptions: VOA, coliform, TOC, TOX, TOH,			Initial when La	ab Std #ID of	Date/	
	□Yes ☑No	,		reservative	Time:	
leadspace in VOA Vials (>6mm): rip Blank Present:	□Yes □No	Z N/A				
	□Yes □No	9 ^{N/A}	15.			
nip Blank Custody Seals Present	□Yes □No	ZN/A				
ace Trip Blank Lot # (if purchased):lient Notification/ Resolution:						
Person Contacted:		Date/T	If cho ime:	ecked, see attache	ed form for additional of	omments
Comments/ Resolution:						
	Manual					
Project Manager Review:				Date:	(1)-1/4	

Attachment F-3

Biopile Monitoring Logs

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL BIOPILE MONITORING SUMMARY Biopile #2016

Monitoring Point: Ambient Air - Upwind

	Vapor VOCs
Date	(ppm)
8/4/16	0.0
8/5/16	0.0
8/8/16	0.0
8/9/16	0.0
8/10/16	0.0
8/11/16	0.0
8/17/16	0.0
8/25/16	0.0
9/2/16	0.0
9/8/16	0.0
9/15/16	0.0
9/21/16	0.0
10/3/16	0.0
10/11/16	0.0
10/19/16	0.0
10/24/16	0.0
11/2/16	0.0
11/9/16	0.0

Notes: NA

Monitoring Point: Ambient Air - Downwind

	Vapor VOCs
Date	(ppm)
8/4/16	0.0
8/5/16	0.0
8/8/16	0.0
8/9/16	0.0
8/10/16	0.0
8/11/16	0.0
8/17/16	0.0
8/25/16	0.0
9/2/16	0.0
9/8/16	0.0
9/15/16	0.0
9/21/16	0.0
10/3/16	0.0
10/11/16	0.0
10/19/16	0.0
10/24/16	0.0
11/2/16	0.0
11/9/16	0.0

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL BIOPILE MONITORING SUMMARY Biopile #2016

Monitoring Point: Blower Inlet

Date	Vapor VOCs (ppm)	CH₄	O ₂	Temperature (⁰ F)
8/4/16	1.0	0.0	17.3	70
8/5/16	1.0	0.0	18.3	68
8/8/16	1.0	0.0	18.2	64
8/9/16	1.0	0.0	19.1	72
8/10/16	1.0	0.0	19.4	68
8/11/16	1.0	0.0	19.5	72
8/17/16	1.0	0.0	19.8	64
8/25/16	1.0	0.0	19.9	65
9/2/16	1.0	0.0	19.0	52
9/8/16	1.0	0.0	20.0	68
9/15/16	1.0	0.0	19.2	58
9/21/16	1.0	0.0	19.2	60
10/3/16	1.0	0.0	20.2	48
10/11/16	1.0	0.0	20.0	58
10/19/16	1.0	0.0	18.9	49
10/24/16	0.0	0.0	19.8	44
11/2/16	0.0	0.0	19.9	51
11/9/16	0.0	0.0	19.4	34

Monitoring Point: Blower Outlet

Date	vapor vocs (ppm)	CH ₄	O ₂	Temperature (⁰ F)	
8/4/16	4.0	0.0	17.1	70	
8/5/16	5.0	0.0	18.4	68	
8/8/16	5.0	0.0	18.5	64	
8/9/16	4.0	0.0	19.2	72	
8/10/16	4.0	0.0	19.4	68	
8/11/16	4.0	0.0	19.5	72	
8/17/16	6.0	0.0	19.8	64	
8/25/16	5.0	0.0	19.9	65	
9/2/16	5.0	0.0	19.2	52	
9/8/16	4.0	0.0	19.9	68	
9/15/16	3.0	0.0	19.2	58	
9/21/16	4.0	0.0	19.5	60	
10/3/16	4.0	0.0	20.2	48	
10/11/16	3.0	0.0	19.8	58	
10/19/16	3.0	0.0	19.4	49	
10/24/16	2.0	0.0	19.8	44	
11/2/16	0.0	0.0	19.2	51	
11/9/16	0.0	0.0	19.6	34	

Attachment F-4

Biopile #2016 Sample Locations

Blower

120 feet

		120	feet			
11A					6A	
			9A			
	8A			5A		
10A						
		7A			4A	
	3A					
					2A	
		1				
						1A

North

Notes: Biopile #2016 sampled on 11/21/16, Temperature 31°F, Sunny, Wind: N@5-10 mph, Pressure: 30.33", Rel. Humidity 58%

210 feet

Blower

120 feet

120 feet							
						6В	
	11B			9В			
						5B	
		8B					
10B							
			7B				4B
	3В						
					2B		
<u> </u>					1B		

North

Notes: Biopile #2016 sampled on 11/21/16, Temperature 31°F, Sunny, Wind: N@5-10 mph, Pressure: 30.33", Rel. Humidity 58%

210 feet

Blower

120 feet

				rieet			
			9C				
11C						6C	
		8C					
					5C		
10C		7C					
						4C	
		3C					
					2C		
	·						
							10

210 feet

North